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United States. Navy Dept. (1845)

MAGNETICAL

AND

METEOROLOGICAL OBSERVATIONS

MADE AT WASHINGTON UNDER ORDERS OF

THE HON. SECRETARY OF THE NAVY,

DATED AUGUST 13, 1838,

BY

LIEUTENANT J. M. GILLISS, U. S. N.

PRINTED BY ORDER OF THE SENATE OF THE UNITED STATES.

WASHINGTON:
GALES AND SEATON, PRINTERS.

1845.

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IN SENATE OF THE UNITED STATES.

February 27, 1845.

Resolved, That the astronomical and magnetic observations made by Lieutenant Gilliss, under the instructions of the Navy Department of the 13th August, 1838, be printed for the use of the Senate; and that 500 extra copies be printed, 200 of which shall be for the use of the department.

Attest: ASBURY DICKINS, *Secretary*.

Navy Department, *March* 21, 1845.

Sir: I transmit, herewith, a copy of a letter from Lieutenant J. M. Gilliss, and of the astronomical and magnetic observations made by him, under the instructions of the Navy Department of the 13th August, 1838; which observations were ordered to be printed by a resolution of the Senate passed on the 27th ultimo.

Very respectfully, your obedient servant,

GEORGE BANCROFT.

Asbury Dickins, Esq.,
Secretary of the Senate.

Washington, *March* 21, 1845.

Sir: I have the honor to acknowledge the receipt of your letter of the 19th instant, and transmit herewith a copy of the magnetical observations called for.

Professor Bradford is diligently engaged in reducing the astronomical observations, under my direction, and I hope to have the volume ready during the next summer.

Very respectfully, your obedient servant,

J. M. GILLISS.

Hon. G. Bancroft,
Secretary of the Navy.

ORDERS.

NAVY DEPARTMENT, *August* 13, 1838.

SIR: Mr. Bond, of Boston, has been employed to make a series of observations during the absence of the exploring expedition, and in connexion with it. It is deemed proper that similar observations be made at the Depôt of Charts and Instruments. You are therefore charged with the performance of this duty; and, in conducting the same, you will be governed by the enclosed, which is a copy of the instructions sent to Mr. Bond.

I am, respectfully, &c.

J. K. PAULDING.

Lieutenant J. M. GILLISS,
Depôt Charts, &c., Washington.

Instructions, &c., to be observed in making the series of observations during the absence of the exploring expedition, and in connexion with it.

There is no need of any remarks of mine on your transit instrument; the kind of instrument, and its capacity, you are as well aware of as I am.

1st. You will use every opportunity of taking observations of moon-culminating stars, confining yourself principally to those enumerated in the Nautical Almanac, to be observed at Greenwich. As most of these stars are of the fifth and sixth magnitude, you will, when opportunity offers, observe all those of the first and second magnitude, particularly during the day, if any such offer.

2d. Although you will have a *meridian mark* to refer to, I should prefer your having recourse to observations of *high and low* stars to prove your observations, as the journal of your observations will then show for itself the state of your instrument.

3d. I would *desire* that your observations should be registered by a sidereal clock, in order to avoid any reduction for *time* equivalents, as mistakes are liable to creep in the long series of observations you will be engaged in. If, at any time, you should not be able to make use of a sidereal clock, your observations ought, in all cases, to be corrected before the expiration of *twelve hours*, and marked in the column with its proper sign of application.

4th. Your transit ought to be kept as nearly as possible in the meridian, although it is not absolutely requisite that it should be precisely so for the observations of the moon-culminating stars. Yet it is so for the moon herself.

5th. You will lose no opportunity of making observations on any astronomical phenemenon, describing the place in the heavens of its occurrence. I mean that your attention may be particularly restricted to any falling stars, particularly to those periodic ones in November.

6th. All eclipses you will of course be particular in observing, in order, if any remarkable phenomenon should happen, we may have simultaneous observations on it. The power of your telescope need not be over 240, and, generally, of 175 and 75; the lower power will be most suitable, as affording a clearer and flatter field. In noting any observations, you will be particular in mentioning the instrument and power used.

7th. In your journal, you will note the state of the heavens, whether clear or cloudy, and the state of the atmosphere, as respects barometer, thermometer, and hygrometer. Daniel's hygrometer, used with ether, is the best.

8th. You will mark the time and commencement, height of arc, and direction of radiating rays, and of any appearance of the aurora borealis, particularly during the summer of 1840 and the fall months.

9th. A true copy of your yearly observations must be made and sent to Washington, to be deposited with the Secretary of the Navy.

10th. The manner of keeping your journal is different from that which you have already adopted in the observations you have forwarded me; they will be embraced in a book of printed transit formula, which will be sent to you as soon as they can be prepared.

11th. The eclipses of Jupiter's satellites frequently offer; they will be generally observed by me, and I think had better claim some attention from you; if not as respects themselves, they may lead to observations that might be interesting, if not useful. Also, I would direct your attention somewhat to the occultations of all large stars, and the difference of observations as respects the disappearance and reappearance of the star with the moon's limb. All these kind of observations will be most desirable during the year 1840.

12th. If you could, it would be desirable that you had one of Gauss's apparatus for observing the perturbations of the magnetic needle; it is by far more delicate than any other, and particularly on the days and at times mentioned in the accompanying report on Baron Humboldt's letter to the Royal Society. (See my letter to Navy Board, for a description of Gauss's apparatus, which is easily constructed.) Observations on the dip and intensity would be very desirable also. I intended to communicate with you before about them.

Respectfully, &c.

CHARLES WILKES.

INTRODUCTION.

At the time the instructions were received from the Hon. Secretary of the Navy to make a series of observations during the absence of, and in connexion with the exploring expedition, there were neither suitable instruments belonging to the *Depôt*, nor assistants connected with it, to make observations of any kind.

Its superintendent, among other duties, was required to rate the chronometers for the navy, and to keep a meteorological journal, to be transmitted to the Navy Department quarterly. Of the instruments with which the former was performed, an account will be given in the ASTRONOMICAL OBSERVATIONS; those for the latter purpose were, a float-gauge barometer, thermometers divided from 2° to 2°, (such as are usually supplied to ships of war,) and a Daniel's hygrometer. It is true, that the navy numbered among its scientific instruments a variation transit and a dip circle, (both made in 1828;) but when it is said of the first, that its needle box rested loosely between the columns, and that its needle was, in construction, mode of support, and manner of reading, similar, in each respect, to the most ordinary surveyor's compass; and of the last, that it was rendered *hors du combat*, from a bend of its pivots, it will be perceived how inadequately the Depôt was provided for the execution of its additional duties.

Recognising the astronomical observations as of paramount importance to the objects of the exploring expedition, (as the instructions distinctly imply,) it was hoped that a continuous series in magnetism and meteorology, carefully made, might prove, in some degree, useful to the solution of the great physical problem under investigation by order of European Governments, even if they could not bring to their recommendation the refinements of observatories specially established to that end. At all events, the subjects were new to the officers who would necessarily take part in them, and the experience consequent to their labors could not fail to benefit the naval profession. Duly appreciating the arguments presented, the Hon. Secretary of the Navy authorized the purchase of a new variation transit, a dip circle, float-gauge barometer, and two standard thermometers, and ordered additional assistants, to enable me to carry on the observations regularly.

Failing to find an artist in the United States willing to undertake instruments of the kind desired, to be completed within a reasonable time, an agent, at New York, was directed to import from M. Gambey, at Paris, magnetical instruments similar to those purchased for the exploring expedition by Captain Wilkes; and Messrs. Troughton & Simms were requested to prepare the barometer and thermometers. The report of the Committee on Physics and Meteorology of the Royal Society had not then been published, nor was it known to me that great modifications were proposed, as well in the instruments as in the method of examining the laws of both sciences; but the instruments ordered were believed to be the best of their kind then in use, as it was understood that M. Gambey profited by the advice of M. Arago, who, with M. Kupffer, had zealously prosecuted the subject of magnetism since 1818, and which resulted in re-discovering the synchronism of the motions of needles widely separated in their localities, as were Paris and Kasan.

At the expiration of nearly a year, information reached me that M. Gambey had declined constructing the instruments, and Messrs. Troughton & Simms were at once requested to make them; some slight modifications being proposed in the plan of the first named, which will be apparent to those acquainted with the French instrument, from the accompanying drawing. Mr. Simms completed the order, and they arrived at Washington during the month of June, 1840.

Meanwhile, a frame building, ten feet long by six feet wide, had been erected for them, on Capitol Hill, its position being fifty feet to the south of the observatory, and forty feet northwest of the house occupied as a depôt for the charts and instruments of the navy.

From meridional observations with the altitude circle of the variation transit of *α Herculis, ε Ursæ Minoris, Polaris, ζ Aquilæ* and *δ Ursæ Minoris*, the latitude was found to be

38° 53′ 34″.6 north;

and the longitude, as deduced by Professor S. C. Walker, from the annular eclipse of September, 18, 1838, and corresponding observations of fourteen lunar occultations, observed by me prior to June, 1840, is

5*h*. 08′ 06″.3 west of Greenwich.

The magnetical observatory was built entirely of wood, secured with pins of the same material, or copper nails; every precaution being taken to exclude metals likely to disturb the magnets. Within it, and at a distance of six feet from each other, were two sandstone piers, for the support of the instruments; the plane in which they were placed being perpendicular to the magnetic meridian, and the eastern pier in the meridian of the transit instrument in the astronomical observatory. They were entirely detached from the floor. Above it, their elevation was forty two inches; and the shafts being eight feet long, their bases were nearly four feet below the surface of the ground, and consequently beyond the action of frost. Meridian openings in the roof, twenty inches wide, corresponded with each pier, and permitted a view of the heavens to within fifteen degrees of the horizon; the observatory to the north and Capitol to the south, interrupting it to that elevation. To preserve the room from extreme as well as sudden changes of temperature, and reduce the range of the internal thermometer as much as the nature of its construction would permit, the building was entirely covered with an awning of painted canvass, distant from it three feet, and which screened it from the direct action of the sun or weather, except early in the morning and late in the afternoon.

THE DECLINOMETER.

To an altitude and azimuth instrument, having a horizontal circle of thirteen inches, and a vertical circle of ten inches diameter, the former reading by four and the latter by two verniers to 10″ each, there is firmly screwed to the base supporting its transit columns, a brass needle box, N N, (see Plate,) thirteen inches long. A cylinder of the same metal, S, which is four inches high, serves to contain the suspending fibre, its upper extremity being secured to the small elevating roller *s*, after passing through a minute triangular aperture in the cap to the cylinder. Four milled-head screws, each pair working perpendicular to the other, enable you to place the magnetic axis* of the needle in the vertical plane described by the line of collimation of the telescope, and its centre of length equidistant between the microscopes; and the cap, with roller attached, may be turned in azimuth, for the torsion adjustment of the thread. *n n* are apertures in the top of the box, fitted with plate glass, through which the magnet may be observed; and *r r* are reflectors, throwing light from a lamp, through corresponding apertures, similarly glazed, in the bottom of the box. M M are micrometer microscopes, magnifying 180 times, reading to seconds of arc, and with lateral adjustments, that their zeros may be made to coincide with the line of collimation of the telescope. This last has an object glass for celestial observation, two and a half inches aperture, with a focal length of thirteen and a half inches, and an additional object glass, *g*, one inch in diameter, of short focal length, which is fitted into a cap, and may be placed over the other, in adjusting the magnet. At the focus of the telescope there are five vertical and one horizontal wires, whose illumination by night is, as ordinary, through the axis, the lamp occupying the wood stand, *a*, resting on a metallic bracket, screwed to the transit column. L is a hanging level, with arms of sufficient length to permit revolution of the telescope, and therefore hung permanently on the transit axis; whence, with that connected with the verniers of the altitude circle, any change of the instrument could be immediately perceived.

The magnet bar is a rectangular parallelepiped, eleven inches long, four-tenths of an inch wide,

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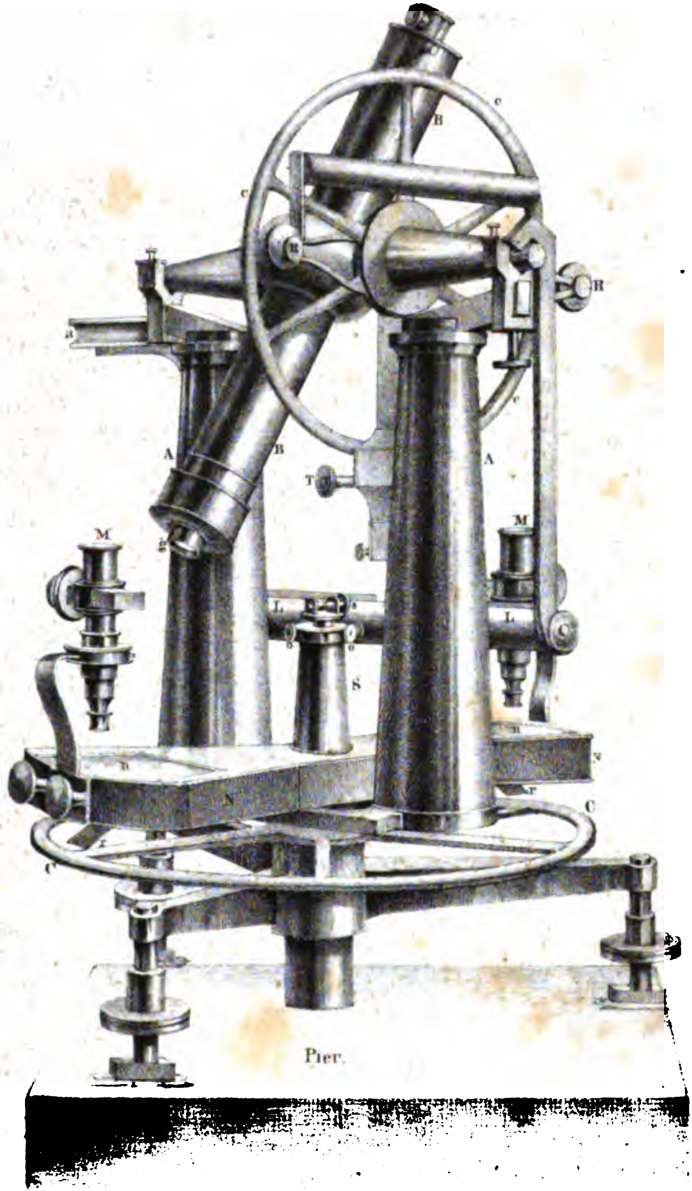
* Accurately speaking, it is the line joining the crosses of the wires in its extremities.



THE DECLINOMETER.

Lith by E Weber & Co Balto

and one-twentieth of an inch thick. To its ends are screwed perforated discs of brass, half an inch in diameter, fitted with spider-line crosses; the line joining their intersections being intended to coincide with the axis of magnitude. Two small brass hooks at its centre (one on each side) are used in suspending the bar, and a movable weight of the same metal, sliding on one arm, serves to bring it to a horizontal position—the brass frames with glazed apertures, *n n*, on top of the box, being readily removable for its manipulation.

There accompanied the instrument a bar of gun metal, of the same dimensions and weight as the magnet, to be used in freeing the suspension from torsion; a brass sector, divided from 10′ to 10′, for examination of the runs of the micrometer microscopes, and the adjustment for collimation of the extra lens; diagonal eye pieces for the telescope, with different magnifying powers; a copper lamp, and stout plates of brass with rectangular grooves, for its feet to rest in.

ADJUSTMENTS AND OBSERVATIONS.

July 5, 1840. Placed the declinometer on the west pier of the observatory, in such position that its feet and the limb of the horizontal circle would be farthest from the edges, in order to avoid accidental disturbance. The direction of the rectangular grooves in the plates under its feet being made to coincide with that of the centre of the instrument, the plates were permanently secured to the pier by a composition of beeswax and resin, a sufficient body of the cement being around each plate to render it absolutely immovable by an ordinary force.

Fitted the brass sector by the centre pin within the needle box, and adjusted the microscopes to distinct vision of its divided scale. The mean of five readings of the south micrometer head for three divisions (30′) being thirty revolutions and 23″, the object glass of the microscope was screwed inwards, and the adjustment for vision again made. On repeated trial, the nearest approximation to accuracy with this microscope was, three divisions required 30′ 2″, which was regarded as sufficiently near, it rarely occurring that a greater angle than 15′ would be measured. These 2″ were therefore disregarded in subsequent adjustments and observations. The focal length of the north micrometer was found to have been well preserved since leaving the maker. Temperature of the observatory 74°.

Hung the level on the axis of the transit telescope. Turned the columns into the plane of the meridian, and corrected one-half the deviation of the level by the foot screw, the other half by the level screw. Moved the columns into the plane of the prime vertical, and corrected the level deviation as before—repeating the process in each position alternately, till the level was found to give the same readings in every azimuth. The transit and azimuthal axes were thus adjusted at one operation.

The meridian mark to the *principal* transit instrument is on the parapet to the western portico of the Capitol. The middle wire of the telescope was directed to exact coincidence with this, by means of the tangent screw to the azimuth circle, and, the instrument being firmly clamped, its verniers were read. The telescope was then reversed, and, the mark being no longer bisected, the tangent screw was again turned till the bisection was perfected, when the verniers were read as before. The transit was then turned through one-half of this angle, and the diaphragm containing the system of wires, or reticle, was moved through the other half by means of the screw, near the eye end of the telescope. Repeated experiments proving that the error of collimation in azimuth had been accurately corrected at the first trial, the level of the axis was re examined, and the telescope turned approximately to the true meridian.*

To determine the accuracy of this assumed meridian, the following stars were observed on the same evening, the time being noted by a sidereal chronometer whose daily rate, as determined by the observations with the principal transit, was + 1″.8 from the 5th to the 7th July:

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* The distance from the parapet of the Capitol being 1,163 feet nearly, and the declinometer 6 feet to the west of the principal transit, the angle through which it was necessary to move the telescope was 17′ 2″.

VARIATION TRANSIT—*Washington, July* 5, 1840.

Star.	I.	II.	III.	IV.	V.	Mean of wires.
	″	″	h. ′ ″	″	″	h. ′ ″
α *Bootis*	42.0	00.2	14 09 18.2	36.3	54.2	14 09 18.38
ϵ *Bootis*	17.8	37.0	14 38 56.2	15.3	34.2	14 38 56.10
α^2 *Libræ*	24.2	41.7	14 42 59.2	16.7	34.2	14 42 59.20
β *Ursæ Minoris*	01.7	04.7	14 52 08.0	11.2	14.5	14 52 08.02
ϵ *Ursæ Minoris*			17 03 21.7			17 03 21.70
α *Herculis*	43.2	00.7	17 08 18.2	35.7	53.2	17 08 18.20
α *Ophiuchi*	52.7	10.2	17 28 27.7	45.2	02.7	17 28 27.70
μ^1 *Sagittarii*	34.7	52.7	18 05 10.9	29.0	47.2	18 05 10.90
δ *Ursæ Minoris*			18 24 30.7			18 24 30.70

LEVEL READINGS.

East.	*West.*
10.3	11.5
10.5	11.3
10.5	11.3

LEVEL REVERSED.

11.3	10.3
11.3	10.5
11.5	10.3
65.4	65.2

The error of collimation having been destroyed, and that of level inappreciable, the observed right ascension, corrected for the chronometer rate, minus the apparent right ascension, will be the error of the chronometer or sidereal time; and this error should be the same for all the stars observed. If the errors be unlike, it evidences a deviation from the plane of the meridian, whose amount is nothing at the zenith, but becomes more and more sensible as the direction of the telescope approaches the horizon. This amount may be accurately computed from these observations; for if α and α' and δ and δ' represent the apparent right ascensions and declinations of any two of the stars, (differing not less than 40° in declination from each other,) t and t', the observed times of transit of the same stars, and ϕ the latitude of the magnetical observatory, it is evident that the azimuthal deviation will be—

$$D = (\alpha - \alpha') - (t - t') \cos.\,\delta \cos.\,\delta' \operatorname{cosec.} (\delta \pm \delta') \sec.\,\phi.$$

Applying the correction for rate, and subtracting from the result the App. AR, we have—

Star.	App. declination.	App. AR.	Observed times.	Chronometer error.
	° ′ ″	h. ′ ″	h. ′ ″	″
α *Bootis*	+ 20 00 57	14 08 24.50	14 09 18.38	+ 53.88
ϵ *Bootis*	+ 27 45 03	14 38 02.69	14 38 56.06	+ 53.37
α^2 *Libræ*	— 15 22 36	14 42 05.14	14 42 59.16	+ 54.12
β *Ursæ Minoris*	+ 74 48 36	14 51 18.69	14 52 07.97	+ 49.28
ϵ *Ursæ Minoris*	+ 82 17 22	17 02 40.57	17 03 21.48	+ 40.91
α *Herculis*	+ 14 34 35	17 07 24.47	17 08 17.98	+ 53.51
α *Ophiuchi*	+ 12 40 54	17 27 33.79	17 28 27.45	+ 53.66
μ^1 *Sagittarii*	— 21 05 40	18 04 15.61	18 05 10.61	+ 55.00
δ *Ursæ Minoris*	+ 86 35 25	18 24 04.88	18 24 30.38	+ 25.50

Taking the differences of the errors, and computing the deviation by the preceding formula, it is found to be—

			″
By ε *Bootis*	and	α^2 *Libræ*	1.20
α^2 *Libræ*	and	β *Ursæ Minor.*	1.57
ε *Bootis*	and	β *Ursæ Minor.*	1.67
α^2 *Libræ*	and	ε *Ursæ Minor.*	2.28
ε *Ursæ Minor.*	and	α *Herculis*	2.28
ε *Ursæ Minor.*	and	α *Ophiuchi*	2.29
ε *Ursæ Minor.*	and	μ^1 *Sagittarii*	2.33
α *Herculis*	and	δ *Ursæ Minor.*	2.18
α *Ophiuchi*	and	δ *Ursæ Minor.*	2.19
μ^1 *Sagittarii*	and	δ *Ursæ Minor.*	2.21
MEAN			2.02

The errors being plus, and decreasing as the place of the star is nearer to the pole, indicates that the plane described by the collimation line of the telescope was to the eastward of the true meridian north of the zenith by an amount equal to 30⅓″ of arc.

JULY 6, 1840.—The verniers to the azimuth circle were found to read, respectively—

°	′	″
22	47	35
112	47	40
202	47	50
292	47	35

and its tangent screw was turned till the readings became—

°	′	″
22	48	05
112	48	10
202	48	20
292	48	05

which was considered the reading for the astronomical meridian until the 5th October following; at which time the mean of the four verniers gave 48′ 39″ for the true meridian, being a motion about the vertical axis of the instrument of 29″. Three marks, one-half of an inch wide and three inches long, were painted in black upon the parapet wall to the Capitol, distant 1,183 feet, and three fine lines drawn on the south front of the observatory to the north. One of each of these lines was bisected by the central and two side wires of the telescope, and the set on each side served to examine the error of collimation at the same time as the deviation in azimuth.

The level to the altitude circle was brought to a horizontal direction by the screws at the foot of the radius bar connected with it, and the horizontal wire of the telescope made to bisect a distant line. The verniers to the altitude circle were read, the instrument turned about its vertical axis 180°, and the mark again bisected and verniers read. One-half of the difference of the readings of the vertical circle in the two situations was corrected by the level screws, and the other half by its tangent screw, and, on turning back the instrument to its first position, the *collimation in altitude* was found to have been corrected.

Fitted on the object glass of short focal length, and turned the telescope (as represented in the PLATE) to the divided scale of the brass sector, moving the latter about its centre until one of its divisions was bisected by the middle wire of the telescope. Reversed the telescope in its Y's, and directed it again to the sector. As the division was no longer bisected, the sector was moved, by estimation, through one-half the deviation, and the additional object glass turned round till the image of the division passed through the other half. By repeated trials in this way, the error was completely removed, and the same division was bisected in both positions of the axis. The divided head of the south micrometer was turned to zero, and its support moved in azimuth till the same division of the sector was accurately bisected by its movable wire, and the support was firmly screwed to the needle box. Placed the sector in the north half of the box, directed the telescope to its scale, and moved it till the division coincided with the middle wire, as before, when the north micrometer was adjusted as the south one had been: their zeros were thus in the vertical plane described by the line of collimation of the telescope.

Removed the sector, and suspended the torsion bar in its place; the thread being a single fibre of silk, as prepared for weaving, whose lower extremity was secured to a small brass loop, which received the hook of the bar, and the upper one passed round the elevating roller. Wound up the bar, till a line cut longitudinally on one of its ends was distinctly visible in the field of the telescope; and considerable torsion being evident, by the settling of its south end against the western side of the needle box, the cap to the cylinder was turned from left to right, until the line was brought directly under the microscope. The telescope was made to coincide with the direction of the supposed magnetic meridian, and, as the torsion bar became quiescent, the cap was moved during the day.

JULY 7, 1840. At 7 A. M., the torsion bar was found to be absolutely still, and the eastern edge of its south end just visible in the field of the microscope. Although the azimuth circle offered a direct mode of determining the deviation of the plane of detorsion from the assumed magnetic meridian, as there was no torsion circle to the cap on which a corresponding angle could be set off, it was not measured, but the cap was again turned by estimation through an angle equal to this deviation. The verniers to the azimuth circle read—

°	′	″
21	26	00
111	26	10
202	26	20
292	26	00

When the torsion bar became quiet, after the lapse of four hours, the line on its south end was found to be 4′ 30″ to the westward of the zero of the micrometer; for which amount it was deemed advisable not to attempt a correction.

To save time, and avoid risk to the suspension fibre necessarily attending the adjustment of the movable slide when in a confined space, the magnet was accurately balanced while the torsion error was being removed. Displaced the brass bar, and hung the magnet in its stead; care being observed to retain the loop of the suspension in precisely the same position during the operation, and the hook on the latter previously made to lie in the same plane with respect to its length as that of the former. As soon as the magnet had become still, the telescope was directed towards it, and the tangent screw of the azimuth circle turned until the cross of wires in its south end was bisected by the middle wire. At the same moment, the movable wire of the micrometer (placed at zero) was observed by an assistant to intersect the same cross. The telescope was immediately directed to the north end of the magnet, and its cross of wires being to the westward of the middle wire 7′ 45″, the tangent screw to the horizontal circle was turned, until the reading of the verniers was 3′ 52″ greater; this being one-half the deviation. The other half was corrected by the adjusting screws at the top of the cylinder, and, after two or three trials, the crosses in the ends of the magnet, the middle wire of the telescope, and the movable wires of the micrometers at zero, were all in the same vertical plane, and the adjustment was complete, so far as was requisite to observe changes of the declination.

Removed the object glass of short focal distance, and directed the telescope alternately to the north and south meridian marks, for the purpose of testing the permanence of its adjustments. The optical axis was found to have remained accurately perpendicular to the axis of rotation, and the reading of the verniers as before, the mean being, if we take A for the degree,

22° 48′ 10″.

Moving the telescope in azimuth again until the micrometer wires (at zero) bisected the crosses in the ends of the magnet, the verniers were found to read—

21° 25′ 50″;

whence, supposing the line joining these crosses to coincide with the magnetic axis, the absolute declination at the instant of observation is equal to the difference of the readings, or 1° 22′ 20″ westerly. The instrument was firmly clamped, and subsequent changes in the direction of the magnet were measured with the micrometers, and applied to this *constant*, the result only being entered in the observation book.

On the 1st October, at 6 A. M., the suspension was found to be broken. All the adjustments were proceeded with as in July, and a similar fibre used for the support of the magnet.

OCTOBER 2, 1840, 1 to 2 P. M. The suspending fibre being considered free from torsion, and the magnet in its place, to ascertain whether the magnetic axis deviated from the line joining the crosses of the wires in its extremities, the angle which it formed with the meridian, in direct and inverted positions alternately, was observed with the south micrometer. As the magnet continued vibrating for some minutes after inversion, and a considerable part of the observed difference might be due to absolute change by lapse of time, three extreme vibrations were observed each time the face of the bar was downward, the magnet at the direct observation being still. Three vibrations occupied 32″.8; and if *a*, *b*, *c* represent the three observations, the adopted place equals $\frac{1}{4}(a + 2b + c)$. Five observations were as follows:

	Magnet in direct position.	*Magnet in inverted position.*	*Difference.*
	0′ 00″.0	+ 4′ 07″.5	+ 4′ 07″.5
	+ 0 16 .5	+ 4 35 .0	+ 4 18 .5
	— 0 18 .0	+ 4 12 .0	+ 4 30 .0
	— 0 12 .5	+ 4 00 .0	+ 4 12 .5
	0 00 .0	+ 4 20 .0	+ 4 20 .0
Mean	- - - -	- - - -	+ 4 17 .7

One-half of which, or 2′ 08.″8, is *additive* to all observations of the magnet when in the direct position. The quantity adopted in the reduction is + 2′ 09″.

After the instrumental adjustments had been satisfactorily completed on the afternoon of the 4th, on directing the telescope to the meridian marks, the mean vernier reading was found to be 22° 48′ 39″, being an excess of 29″ over that for July, as previously stated. But the marks both to the north and south remaining bisected, it was deemed necessary to examine the accuracy of their location, and, after the culmination of the moon on the following evening, the subjoined transits were observed. Rate of the sidereal chronometer, as determined from observations with the principal transit instrument, +1″.25.

OCTOBER 5, 1840.

Star.	I.	II.	III.	IV.	V.	Mean of wires.
	″	″	h. ′ ″	″	″	h. ′ ″
β *Aquarii*	03.0	20.0	21 24 37.0	54.0	11.0	21 24 37.00
β *Cephei*		12.2	21 28 01.3	50.5	39.5	21 28 01.32
ε *Pegasi*	14.3	31.5	21 37 48.5	05.6	22.6	21 37 48.50
α *Aquarii*	29.0	46.0	21 59 02.9	19.8	36.6	21 59 02.86
α *Piscis Aus.*	38.5	58.0	22 50 17.6	37.3	57.0	22 50 17.68
α *Pegasi*	41.8	59.3	22 58 16.8	34.3	51.8	22 58 16.80

Correcting the mean of the wires for rate of the chronometer, and subtracting the App. AR. from the Nautical Almanac, we have—

Star.	App. Declination.	App. AR.	Chronometer rate.	Corrected mean.	Chronometer error.
	° ′ ″	h. ′ ″	″	h. ′ ″	′ ″
β Aquarii	— 6 16 00	21 23 11.67	.00	21 24 37.00	+ 1 25.33
β Cephei	+ 69 52 00	21 26 36.05	.00	21 28 01.32	+ 1 25.27
ε Pegasi	+ 9 09 02	21 36 23.25	— .01	21 37 48.49	+ 1 25.24
α Aquarii	— 1 05 18	21 57 37.68	— .02	21 59 02.84	+ 1 25.16
α Piscis Aus.	— 30 27 47	22 48 52.27	— .07	22 50 17.61	+ 1 25.34
α Pegasi	+ 14 21 31	22 56 51.55	— .07	22 58 16.73	+ 1 25.18

showing that the meridian marks were correctly placed; the differences of resulting errors being clearly within the limits of errors of observation, and the deviation in azimuth, for all practical purposes, inappreciable.

On the 9th July, 1841, the declinometer was dismounted, taken partially to pieces, and cleaned, and the pier for its support was painted. The brass plates under its feet having been moved also, and re-cemented, the mean vernier reading for the astronomical meridian was found to be 22° 42′ 22″; from which there was no change during the remaining period of observation. For greater convenience, occasionally, but more frequently because of the absolute declination at the termination of the adjustments, the *constant* was subject to change with each re-examination of the instrumental errors; but, to avoid mistakes, it was entered, with its date, on a blank leaf of the observation book, so that it could be always referred to.

A balance magnetometer of Doctor Lloyd's construction, which had been in use at the Girard College observatory, was obtained through the kindness of Doctor A. D. Bache, and the magnet bar first placed on the eastern pier of the magnetical observatory on the 13th August, 1841. Its influence on the declinometer was immediately perceptible, and three methods were subsequently adopted to ascertain the amount. Neither of these modes is free from objection, though the last is, perhaps, least liable to error when the changes that occur during the investigation can be eliminated by observations made with a subsidiary instrument. But it will be seen that even this is no certain safeguard, the two instruments at Cambridge, Massachusetts, which are under the same roof, giving changes of declination on the 12th September from 20*h*. to 22*h*., mean time, Göttingen, differing from each other 54″.

The first experiment is based upon the supposition that the angular value of the diurnal variation at two points of observation is the same, (which it is, very nearly, in the present case,) and that, by reason of their geographical proximity, neither Cambridge nor Washington would be isolated in disturbances. If, then, an observation of the declination be made whilst the magnet of the vertical force instrument is in its place, and this magnet be removed from the observatory and a second observation taken, a change of declination will be perceived, compounded of the variation of which the solar time is a function, and that due to the removal of a previously disturbing force. The true change being simultaneously observed, their difference will be the amount due to deflection.

SEPTEMBER 12—13, 1841.—The magnet of the vertical force instrument at Washington was removed from the observatory immediately after the observation of the declination at 20*h*., mean time, Göttingen, and replaced on its supports after that at 22*h*. The changes were *specially* observed at Cambridge, and communicated by W. C. Bond, Esq.; those at Washington were by myself.

Declination *decreased* at Cambridge, from 20*h*. to 22*h*., Göttingen, per LLOYD's declinometer - - - - - - - - - - -	4′ 26″.0
Declination *decreased* at Washington, between the same hours - - - -	6 23 .0
Angular value of the deflection produced by VERTICAL FORCE MAGNETOMETER	+ 1 57 .0

Declination *decreased* at Cambridge, from 20*h*. to 22*h*., Göttingen, per Gauss's declinometer - - - - - - - - -	3′ 32″.0
Declination *decreased* at Washington, between the same hours - - -	6 23 .0
Angular value of the deflection - - - - - - -	+ 2 51 .0
Declination *increased* at Cambridge, from 22*h*. to 0*h*., Göttingen, per Lloyd -	0′ 09″.0
Declination *increased* at Washington, between the same hours - - -	1 44 .5
Angular value of the deflection - - - - - - -	+ 1 35 .5
Declination *increased* at Cambridge, from 22*h*. to 0*h*., Göttingen, per Gauss -	0′ 04″.0
Declination *increased* at Washington, between the same hours - - -	1 44 .5
Angular value of the deflection - - - - - - -	+ 1 40 .5
Mean of the four results - - - - - - -	+ 2′ 01″.0

The second method assumes that the days selected for experiment are not subject to unusual change, and that by obtaining the means of all the observations at any hour of a month, extraordinary disturbances are almost, if not entirely obliterated, they being of nearly equal amount, on opposite sides, in the multitude of days. The difference between the mean declinations thus found, for any two hours, will be the true variation due to the elapsed time; and, since the presence of the vertical force magnet is a constant force, producing a like error for every hour, if it be removed at any of these hours, it is evident that we shall have a compounded variation, as in the preceding case, whose difference from the true variation due to elapsed time will be equal to the deflection.

September 12—13 and 24—25, 1841. The magnet of the vertical force instrument was removed from the observatory after the observation at 20*h*., mean time, Göttingen, and replaced after the observation at 22*h*.

Mean declination for September at 20*h*.* - - - - - -	1° 28′ 08″.8
Mean declination for September at 22*h*. - - - - - -	1 25 12 .7
True variation - - - - - - - - -	— 2 56 .1
Variation observed September 12 - - - - - -	— 6 23 .0
Angular value of deflection - - - - - -	+ 3 26 .9
Mean declination for September at 22*h*. - - - - - -	1° 25′ 12″.7
Mean declination for September at 0*h*. - - - - - -	1 23 35 .4
True variation - - - - - - - - -	— 1 37 .3
Variation observed, September 12 - - - - - -	+ 1 44 .5
Angular value of the deflection - - - - - -	+ 3 21 .8
True variation for September, between 20*h*. and 22*h*. - - - -	— 2′ 56″.1
Variation observed September 24 - - - - - -	— 0 24 .5
Angular value of the deflection - - - - - -	+ 2 31 .6
True variation for September, between 22*h*. and 0*h*. - - - -	— 1 37 .3
Variation observed September 24 - - - - - -	+ 1 51 .0
Angular value of the deflection - - - - - -	+ 3 28 .3
Mean by the *second* method - - - - - -	3′ 14″.6

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* See page 312.

The third mode adopted was to observe the effect of the vertical force magnet upon the declinometer in two positions of its poles. That is, the bar of the latter being still, and the north end of the former towards the north, or *in direct position*, the declination micrometers were read, and the bar of the vertical force reversed on its supports, so as to bring its south end towards the north, and the micrometers again read. One-half the difference of the readings under the two circumstances is due to the deflection by the vertical force when its bar is in either position, the sign of the correction changing, however, as it is direct or reversed.

DECEMBER 30, 1841. The following observations were made, to determine the deflection caused by the vertical force magnetometer on the declination bar. The time at which the experiments were made was about the period of least change, viz: 2*h*. to 4*h*., mean time, Göttingen. To avoid errors from variation in the interval between the first and second readings of the micrometers, as soon as the excursions of the declination magnet were confined to the field of the microscope, the extremes of three consecutive vibrations were measured, and the value of the second reading is obtained by the method stated on page xv, $\frac{1}{4}(a + 2b + c)$.

FIRST SERIES.

	V. F. magnet in direct position.	*V. F. magnet in reversed position.*
Micrometer readings of declinometer	S. + 3′ 20″	S. — 2′ 09″
	N. + 2 52	N. — 2 16

SECOND SERIES.

Micrometer readings of declinometer	S. + 2′ 50″	S. — 2′ 30″
	N. + 3 11	N. — 2 04

Combining these, we have—

$$\text{1st. } \frac{3' \, 20'' + 2' \, 09''}{2} = 2' \, 44''.5$$

$$\text{2d. } \frac{2' \, 52'' + 2' \, 16''}{2} = 2' \, 34''.0$$

$$\text{3d. } \frac{2' \, 50'' + 2' \, 30''}{2} = 2' \, 40''.0$$

$$\text{4th. } \frac{3' \, 11'' + 2' \, 04''}{2} = 2' \, 37''.5$$

MEAN by the third method, + 2′ 39″.0.

The north end of the declination bar being drawn to the *eastward* by reversing the vertical force magnet, it is evident that in the *direct* position of the latter, which it occupied at ordinary observations, the same end of the former is deflected 2′ 39″ to the WEST of the place it would attain were there no disturbing force. Collecting together the mean result of each series of experiments, we have—

ANGULAR VALUE OF THE DEFLECTION.

First method - - - - - - - -	+ 2′ 01″.0
Second method - - - - - - - -	+ 3 14 .6
Third method - - - - - - - -	+ 2 39 .0
MEAN - - - - - - - - -	+ 2 38 .2

which last amount has been used in reducing observations to absolute declinations during the presence of the vertical force magnetometer.

DIP CIRCLE.

The dip circle, constructed by Messrs. Troughton & Simms, arrived about the same time as the declinometer, and was placed on a sandstone pier forty feet to the northeast of that instrument, and at such distance to the southeast of the astronomical observatory as to be free from all influence. A wedge-shaped box, just large enough to receive it, with doors opening upward, and a covering of stout painted canvass fitting closely over this, protected it from the weather, so that it remained constantly on its pier. The hinges and fastenings of the box were all of copper.

The instrument differs but little in its construction from that known as Gilbert's, a description of which is contained in the article "*Terrestrial Magnetism*," written for the Encyclopædia Britannica, by Sir David Brewster. Each of its three foot screws rested in apertures on discs of brass, whose places were marked on the top of the pier. The horizontal circle is eight inches in diameter, divided to half degrees reading by two verniers to 1′; and the vertical circle within its cylindrical box is also eight inches in diameter, divided into spaces of 10′ each. To each circle there is a spirit level: that of the former lies parallel to the axis of the cylinder; that of the latter is attached to the supports for the needle, and is consequently perpendicular to the other. The faces of the cylindrical box are fitted with plate glass, one of them opening for manipulation of the needle, and retained in place by a spring catch, when closed. There are three rhomboidal needles belonging to the instrument, each eight inches long. These rest, by pivots of finely polished steel, on planes of agate, permanently fitted to the support attached to the upright circle at its horizontal diameter. For the purpose of placing the axis or pivots of the needles accurately at the centre of this circle, as well as to relieve the planes and pivots from unnecessary friction when not actually in use, there is a Y on each side of the support, movable in altitude by an excentric screw on the outside of the box, both Y's being moved by the same turn of the excentric.

METEOROLOGICAL INSTRUMENTS.

Barometer.—The *float-gauge* barometer left at the depot by Lieutenant Wilkes, was made by Messrs. Troughton & Simms, and the diameter of its tube was .35 of an inch. It was suspended to the casing of a window in the chronometer room, at a height of six feet above the surface of the ground. I have no knowledge that it was ever compared with any standard. In the autumn of 1840, the summit of its mercurial column began to exhibit traces of rapid oxidation, depositing a dark substance on the inner face of the tube. Early in the following January, the case protecting its cistern was split, from being accidentally struck, and the barometer was taken to the office of the Coast Survey for repairs. Its place was supplied, *ad interim*, by a French instrument loaned by Mr. Hassler, to all observations with which the difference of the readings of the two was immediately applied. Doubting the accuracy of its indications, the float-gauge barometer was compared with an instrument, constructed on the plan of Mr. Hassler, that was of nearly similar capacity, and they were found to differ only in the third decimal, the readings being sometimes greater and sometimes less. Hoping to arrest oxidation, the mercury was boiled in the tube by Mr. Hassler, before its return on the 16th February. This was not the case, however, the deposition going on afterwards more rapidly than before; and confidence was so much impaired in its results, that a new instrument of like construction was ordered from Troughton & Simms in May, 1841.

This barometer arrived safely on the 17th August, and was permanently placed in a vertical position against the north wall of the chronometer room, its cistern six feet above the ground outside, which is 72 feet above ordinary low water at the base of Capitol Hill, according to the levels deposited in the office of the Commissioner of Public Buildings. The diameter of its tube* is nearly half an inch; and its readings, which by its vernier are to .002 inch, were found by comparison to be .036 inch lower than a mean of the standards of flint and crown glass at the rooms of the Royal Society; .036 inch has therefore been added to all observations.

In a *float-gauge* barometer, the level of the surface of the mercury in its cistern is kept invariable by increasing or diminishing its capacity, as the column is depressed or elevated by change of atmospheric pressure. To accomplish this, the bottom of the cistern is made of leather, against which a metallic disc is pressed by a screw working vertically; and the adjustment is perfected by an ivory cylinder screwed into the top of the cistern, and a small piston of the same material moving loosely in it, that floats on the surface of the mercury. The instrument is prepared for use by turning the screw at the bottom of the cistern until a mark on the piston is accurately in the same plane as a similar one on the cylinder, whose distance below the scale at the top of the column has been positively determined by the maker.

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* The record of the exact diameter of this barometer, given by Mr. Simms, has been misplaced, and cannot now be found at the Depot.

Thermometers.—*Air.*—Two standards were made by Messrs. Troughton & Simms, each divided to half degrees. *One* of these was kept in the chronometer room, and the other placed in the air on the north side of the house. It was suspended within a small white box, (open at bottom, and with apertures under its top,) about one foot from the wall of the house, and six feet above the ground, and was protected from the direct and reflected rays of the sun in the morning and afternoon by a large green screen.

Sun.—Made by Tagliabue, New York, and divided from two to two degrees. It was enclosed in a cylinder of glass, with apertures at bottom and top, and hung exposed throughout the day to the full rays of the sun, on the south side of a post, and four feet above the ground.

Radiating.—Similar to the preceding, except that its bulb was coated with a mixture of lamp-black and varnish, put on while warm. It was on the same post as the last, with its bulb six inches above a sand soil.

Wet-bulb.—Made by Brown, New York, and divided from two to two degrees. Its bulb was covered with soft muslin scraped into a fine fringe about the top, for the purpose of readily absorbing moisture, and hung on the same post, but just below the air thermometer.

Self-registering.—Made by Troughton & Simms, and divided to one degree. They are upon the plan devised by Dr. Rutherford, and detailed in the *Transactions of the Royal Society of Edinburgh, vol.* 3. Two thermometers, one mercurial, the other of alcohol, with tubes bent at right angles to their bulbs; are placed horizontally on the same block of boxwood. Each has its own scale. The mercurial tube has a steel index above its column, pushed before it by the expansion, and left at the maximum temperature. The alcoholic column has an index of glass, with a small knob at each end, floating freely in the spirit. This (the spirit) readily passes beyond the index on expansion; but their attraction is such that, on contraction of the column, the index is drawn towards the bulb by the last particles of the liquid, and thus indicates the minimum temperature. With the former, the end of the index next to, and in the latter, the end farthest from its bulb, is the temperature to be observed.

Daniell's hygrometer.—This is a glass tube, about eight inches long and one-fourth of an inch in diameter, bent to form two right angles, with legs of unequal lengths, terminating in bulbs rather more than an inch in diameter; that to the longer leg being blackened on the inside. A small mercurial thermometer, with a pyriform bulb, is fixed within the longer leg, so that its bulb is near that of the blackened one, which latter is two thirds filled with sulphuric ether. The bulb to the shorter leg is covered with fine muslin, and the whole is supported on a brass stand.

The internal thermometer to the instrument used from July, 1838, to November 9th, 1839, was made by Newman, London, and divided to two degrees; that in use from March, 1840, to August, 1841, by Pike, New York; and the last was by Troughton & Simms. It was of much larger size than ordinary, and its thermometer was divided to one degree.

Lind's wind gauge.—A glass tube, nearly in the form of the letter U, contracted at the bottom to prevent rapid oscillation of the contained liquid, but of the same capacity in both legs, is attached to an ivory scale divided into inches and hundredths. One of the legs is so bent that when the instrument is upright its aperture may be placed perpendicular to the direction from whence the wind blows; the other is also open. The force of the wind is computed from the height of the column of water that it sustains, and which is equal to the difference of the reading in the two legs.

Rain gauge.—The rain gauge used from July, 1838, to January, 1840, was a tin cone nine inches high, with a base of five inches. It held three inches, and the measuring rod was a strip of tin graduated to hundredths of an inch for the first three-tenths, and above that to five-hundredths. The instrument is fully described in *Silliman's Journal*, vol. xxii.

The gauge which replaced it was of analogous form, exposing precisely the same receiving surface, viz: 19.63 square inches; but the rain passed immediately into a glass bottle, and was measured in a graduated cylinder of glass 0.75 inch in diameter. Their ratio being as 19.63 inches to 0.59 inch, each hundredth received would fill 33¼ hundredths of the cylinder. Both gauges occupied the same spot, five feet above the soil, and free from all shelter in driving rains.

PERSONNEL.

The following list embraces all the assistants attached to the Depôt, from July, 1838, to July, 1842, with the period of their service:

Name and rank.	From	To
Lieutenant William R. Taylor	December 1, 1841	May 11, 1842
“ William H. Ball	June 15, 1840	December 14, 1841
“ C. W. Morris	March 8, 1842	July 1, 1842
“ J. J. Almy	December 14, 1841	July 1, 1842
Passed Midshipman B. S. B. Darlington	October 15, 1838	March 21, 1839
“ “ J. F. Borden	April 11, 1840	September 29, 1840
“ “ G. L. Selden	March 27, 1840	July 16, 1840
“ “ A. F. V. Gray	March 26, 1839	March 20, 1840
“ “ G. S. Wyche	February 6, 1839	April 3, 1840
“ “ Edmund Jenkins	September 28, 1840	April 5, 1841
“ “ R. B. Pegram	March 19, 1841	June 23, 1841
“ “ D. Ross Crawford	July 27, 1840	March 3, 1841
“ “ L. B. Avery	March 27, 1841	September 21, 1841
“ “ S. F. Blunt	May 10, 1842	July 1, 1842
“ “ William T. Smith	August 28, 1839	September 25, 1840
“ “ Henry H. Lewis	November 3, 1840	April 17, 1841
“ “ M. Hunt	January 21, 1842	June 25, 1842
“ “ Joseph H. Adams	October 11, 1841	July 1, 1842
“ “ William B. Beverly	July 7, 1838	October 8, 1838
“ “ William E. Leroy	May 25, 1842	July 1, 1842
“ “ M. Woodhull	September 10, 1841	April 15, 1842
“ “ L. Maynard	October 1, 1841	July 1, 1842
“ “ R. N. Stembel	July 31, 1838	May 25, 1839
“ “ W. Reid	September 8, 1841	November 26, 1841
“ “ E. S. Hutter	August 17, 1841	September 22, 1841
“ “ J. C. Henry	April 20, 1841	July 23, 1841
“ “ G. Wickham	October 3, 1838	July 26, 1839
“ “ H. A. Wise	September 24, 1840	August 16, 1841
“ “ C. S. Noland	September 25, 1840	November 3, 1840
“ “ S. C. Barney	July 23, 1841	September 10, 1841
“ “ B. F. B. Hunter	June 29, 1841	September 8, 1841
“ “ R. B. Riell	November 26, 1841	July 1, 1842
“ “ T. H. Stevens	June 27, 1840	September 29, 1840

As the Government provided no quarters for the assistants, they located themselves as best suited their convenience or inclination; and the same officer was necessarily employed throughout the night, from the distance at which his successor lived. The day was divided into two parts—the first commencing with the meteorological observations at 9 A. M., terminated with the magnetical observations at 8 P. M; and the second commenced with 9 P. M., and terminated with 8 A. M. To most of the officers, the confining nature of the duties was extremely irksome; and there being no additional compensation to offset the increased expense of residence at Washington, after a month or two they cheerfully exchanged the duty for service on shipboard.

EXPLANATION OF THE PRINTED OBSERVATIONS.

Pages 2—243. Column first contains the time at which the *declination* observation was made. For this purpose, a mean time chronometer was kept in the observatory, which was set to MEAN TIME at GÖTTINGEN. Its beat was to half seconds, and sufficiently loud to be heard distinctly in any part of the room. To exhibit the accuracy of the time adopted, the following is a transcript from the astronomical observations :

July 10, 1840.

Star.	Declination.	Mean of wires.	Instrumental correction.	Observed AR.	App. AR.	Clock error.
	° ′	h. ′ ″	″	h. ′ ″	h. ′ ″	″
ϕ^2 Lupi	— 36 17	15 13 56.18	— .095	15 13 56.09		
9 Serpentis	+ 16 00	15 19 20.30	— .032	15 19 20.27		
ζ^3 Libræ	— 16 03	15 22 37.98	— .068	15 22 37.91		
11 Serpentis	— 0 38	15 25 41.98	— .050	15 25 41.93		
α Cor. Bor.	+ 27 15	15 28 53.14	— .018	15 28 53.12	15 27 57.68	+ 55.44
τ^3 Serpentis	+ 16 33	15 34 36.10	— .032	15 34 36.07		
α Serpentis	+ 6 56	15 37 21.90	— .042	15 37 21.86	15 36 26.37	+ 55.49
b Scorpii	— 25 16	15 42 20.90	— .078	15 42 20.82	15 41 25.44	+ 55.38
A^1 Scorpii	— 24 51	15 45 00.00	— .079	15 44 59.92	15 44 04.54	+ 55.38
δ Scorpii	— 22 10	15 51 51.90	— .075	15 51 51.85	15 50 56.37	+ 55.48
β^1 Scorpii	— 19 22	15 57 07.50	— .071	15 57 07.43	15 56 11.90	+ 55.53
47 Serpentis	+ 8 57	16 01 44 00	— .040	16 01 43.96		
δ Ophiuchi	— 3 17	16 06 56.48	— .053	16 06 56.43	16 06 01.19	+ 55.24
σ Scorpii	— 25 12	16 12 27.50	— .078	16 12 27.42		
ξ Cor. Bor.	+ 31 16	16 16 50.50	— .012	16 16 50.49		
α Scorpii	— 26 04	16 20 35.62	— .080	16 20 35.54	16 19 40.10	+ 55.44
τ Scorpii	— 27 53	16 26 55.38	— .083	16 26 55.30	16 25 59.72	+ 55.58

July 11, 1840.

Star.	Declination.	Mean of wires.	Instrumental correction.	Observed AR.	App. AR.	Clock error.
	° ′	h. ′ ″	″	h. ′ ″	h. ′ ″	″
α Scorpii	— 26 04	16 20 34.64	— .452	16 20 34.19	16 19 40.09	+ 54.10
τ Scorpii	— 27 53	16 26 54.36	— .468	16 26 53.89	16 26 59.72	+ 54.17
33 Herculis	+ 7 26	16 30 03.00	— .238	16 30 02.76		
1908 A. S. C.	— 28 12	16 35 58.60	— .469	16 35 58.13		
i Herculis	+ 8 53	16 39 06.68	— .227	16 39 06.45		
k Herculis	+ 7 32	16 43 30.96	— .230	16 43 30.73		
1934 A. S. C.	— 16 33	16 47 46.02	— .386	16 47 45.63		
κ Ophiuchi	+ 9 38	16 51 03.30	— .229	16 51 03.08		
ε Herculis	+ 31 10	16 55 07.64	— .072	16 55 07.57		
60 Herculis	+ 12 58	16 58 55.12	— .134	16 58 54.99		
29 Scorpii	— 26 47	17 05 15.20	— .459	17 05 14.74		
α Herculis	+ 14 35	17 08 18.72	— .192	17 08 18.53	17 07 24.47	+ 54.06
a Herculis	+ 24 40	17 15 16.26	— .121	17 15 16 14		
Moon I	— 27 55	17 19 14.50	— .468	17 19 14 03		
e^2 Ophiuchi	— 23 50	17 22 37.76	— .438	17 22 37.32	17 21 43.35	+ 53.97
α Ophiuchi	+ 12 41	17 28 28.20	— .201	17 28 28.00	17 27 33.80	+ 54.20
o Serpentis	— 12 47	17 33 23.44	— .363	17 33 23.08		
p Sagittarii	— 27 46	17 38 28.20	— .468	17 38 27.73		
μ Herculis	+ 27 49	17 41 09.30	— .103	17 41 09.20		
z Ophiuchi	— 24 51	17 46 01.66	— .426	17 46 01.23		
2052 A. S. C.	— 30 14	17 49 47.68	— .487	17 49 47.19	17 48 53.06	+ 54.13

The chronometer was wound daily at noon, compared with the standard clock, and its error on Göttingen time placed within its box for constant reference ; the longitude adopted for Göttingen being that of the Nautical Almanac, viz: 0*h*. 39′ 46″.5 east of Greenwich. The days have been reckoned from *mean midnight* at that city, and consequently commenced at 6*h*. 12′ 05″.4 P. M., Washington.

Column second contains the absolute declination of the needle from the true meridian at the hour indicated in the first column. In making these observations, the assistant was required to divest himself of every thing likely to agitate the magnet, before entering the observatory; its extreme sensibility rendering the presence of the smallest portions of iron or steel instantly perceptible. A few minutes before the even Göttingen hour, both micrometers were moved till their wires bisected their respective crosses; and, to ascertain whether the magnet was vibrating, the eye was then kept steadily on one end till the time was up; the readings of the micrometers were applied to the constant, and the results entered in the observation book. The angular value thus obtained has been corrected for one-half the deviation of the magnetic axis from the line joining the crosses, and for the deflection produced by the vertical force magnet, as previously stated. Throughout the whole period, the north end of the magnet was to the WEST of the true meridian.

Columns third, *et seq.* Ordinarily the barometer was read off at 6*h*. 05′, 8*h*. 05′, &c., mean time, Washington, so as to allow time for the observation of the declination at the proper moment. The air thermometer was then read, and the bulb of the wet thermometer moistened from a vessel of water kept beside it, that it might be of the temperature of the air. The thermometer in the magnetical observatory hung beside the declinometer till August 13, 1841, when it was placed under the case of the vertical force instrument.*

Pages 246—274. For the purpose of examining more minutely the irregular variations of the magnet, according to pre-appointment, one day in each month, denominated "*term day*," was set apart for continuous observation. The terms which had been agreed upon by the German Magnetic Association commenced at 10 P. M., Göttingen, (4*h*. 12′ P. M., Washington,) on the *Friday preceding the last Saturday* of the months of February, May, August, and November, and continued twenty-four hours. To these the Committee on Physics of the Royal Society recommended the addition of eight others in the intermediate months, to begin at the same hour on the *Wednesday nearest the* 21*st* of January, March, April, June, July, September, October, and December, and to continue the same length of time. An observation was to be made accurately at the expiration of each *five minutes*, making in all 288 during the twenty-four hours.

In these pages, there being twelve observations to each hour, the hour is placed at the head and the minutes (0′, 5′, 10′, &c.) at the side of the column. The observations were invariably to the *nearest second* of time, the terms being kept by the more experienced assistants and myself. January of 1842 was unintentionally overlooked.

To render visible the changes thus recorded, a diurnal curve of the magnetic declination has been projected from each month's observations, and the plates on which they are represented face page 316. The mode of tracing these curves is as follows: "Two lines are drawn upon a sheet of paper at right angles to each other, and assumed as the axes of rectangular co-ordinates. One of them is divided into twenty-four equal intervals, each of which is subdivided into smaller parts, according to the scale of the chart. The other line is also divided into portions corresponding to degrees and minutes of arc. Any point that is most convenient may be selected as the origin of the co-ordinates; and by considering the time as ordinate, and the result of observation annexed to it as abscissa, we obtain as many points of a daily curve as there are mean results of observation. In ordinary term days, the number is 288. When so many points are fixed upon the sheet, they are connected by straight lines, or curves of the simplest curvature."†

Pages 276—294. This series, made also at intervals of *five minutes* during one hour and a half of each day, was commenced at the request of Mr. Bond, it being understood that the observatory at

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* It having been found necessary, from its too great sensibility, to change the centre of gravity of this latter instrument, and the temperature correction not having been satisfactorily ascertained, the few weeks' observations made with it previously are not deemed of sufficient value for publication.

† Lovering and Bond on Magnetic Observations at Cambridge.

Toronto would co-operate. As in the case of term day, the observations were made to the *nearest second* of time.

Pages 295—306. Observations at short intervals during extraordinary fluctuations of the magnet, principally during visible aurora.

Pages 308—315. The means embraced in these pages are the sums of *all* the observations at any hour of a month, divided by the number of observations at that hour during the month. The mean declination and temperature from these pages have also been projected on the plate representing the term day curve for the same month.

Pages 318—323. The following was the mode of observing the *inclination:* The instrument being carefully levelled, and the plane of its divided vertical circle made to coincide with the magnetic meridian by a small magnet placed on a pin resting in the Y's to the support, the horizontal circle was read, magnet removed, and needle introduced. A complete observation consisted of readings in the subjoined positions.

Face east.

Upper - - - -
Lower - - - -

Face west.

Upper - - - -
Lower - - - -

AXIS REVERSED.

Face west.

Upper - - - -
Lower - - - -

Face west.

Upper - - - -
Lower - - - -

POLES REVERSED.

Face east.

Upper - - - -
Lower - - - -

Face west.

Upper - - - -
Lower - - - -

AXIS REVERSED.

Face west.

Upper - - - -
Lower - - - -

Face east.

Upper - - - -
Lower - - - -

Each "*upper*" and "*lower*" was the mean of three observations, between which the needle was raised off the planes by the Y's. For the reversal of the poles, a block of mohogany was cut out to receive the needle, and two small bar magnets were used. The magnets were drawn from the axis towards the poles ten times, and, the face of the needle being reversed, ten other similar passes were made. The magnets were next charged, and *their* opposite poles employed to complete the reversal, the preceding numbers of passes and positions of the needle being followed.

The discordance of the results is altogether inexplicable. It is true that the small magnets that accompanied the instrument, and which were employed in reversing the poles until the autumn of 1841, constantly required recharging, and that each day's observation was by a different assistant; but these reasons are insufficient to account for such great discrepancies. Believing them to be more weighty than the sequel proved, a new and more powerful pair of magnets was obtained, and the instrument placed entirely under charge of Lieutenant Ball, in October, 1841. At his departure, Lieutenant Taylor was deputed, and in May, 1842, Lieutenant Morris. Each of these officers adopted every precaution; and, if care and multiplied readings could have insured like results, their observations should certainly have been successful.

Pages 348—531. The *dew point*. The ether being expelled from that bulb of the hygrometer which is covered with muslin, by heat of the hand and inclining its tube, the instrument is held perpendicularly, with the dark bulb on a level with the eye, and so as to reflect the greatest amount of light from its surface. From the highly volatile nature of the enclosed liquid, the covered bulb is filled with its vapor immediately on removal of the hand. This is condensed by the cold produced by the evaporation of sulphuric ether *dropped* from a bottle on the muslin cover, and more vapor being constantly supplied, to be in turn condensed, the ether of the black bulb is cooled till the ambient air deposites at its surface on the ball a film of dew like a ring. If there be any doubt as to the exact temperature of the internal thermometer at the instant of deposition, it is closely observed till the ring disappears, which is also the temperature of the dew point. A more accurate method of observation would be to *repeat the experiment*, or to note the temperature at formation and disappearance of the ring, and take their mean, as it frequently occurs that the mercury of the internal thermometer is not deprived of its temperature as rapidly as the ether, and the dew point noted is from one to three degrees too high. In all suspected cases, the observation has been repeated.

Wet thermometer, page 469, *et seq*. This was usually the last thermometer read off, and about ten minutes after its bulb had been moistened. The *force of the aqueous vapor* has been computed from these observations by the tables published in the instructions from the "Committee on Physics, including Meteorology," of the Royal Society, according to the formula of Dr. Apjohn.*

$$f'' = f' - m\,d \times \frac{p}{30}$$

in which f'' is the tension of vapor at the dew point, f' its tension at the temperature of the wet-bulb thermometer, d the depression or difference between the temperature of the air and wet-bulb thermometers, p the existing and 30 inches the mean atmospheric pressure, and m a co-efficient depending upon the specific heat of air, and the caloric of elasticity, and its included vapor, its value above the freezing point being .01149, and below it .01017.

Wind. A vane was placed on top of the observatory, and the direction of the wind read from an attached compass card. Houses interrupted all winds from S. S. E. to S. S. W., between which points the vane was useless. From November, 1841, the *force* is taken from the table in the volume by the committee of the Royal Society, just referred to, being in pounds upon a square superficial foot exposed perpendicular to the direction from whence the wind blows. The rain was usually measured immediately after its fall.

J. M. GILLISS.

WASHINGTON, *August*, 1845.

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* London and Edinburgh Philosophical Magazine and Journal of Science, volume vi.

ERRATA.

On comparing the printed sheets with the original observations, and recomputing the means, the following errata have been detected. The tables of abstracts have been prepared subsequently.

Page 149,	September 23, declination at 14*h*.,	for 1° 20′ 19″,	read	1° 19′ 55″
149,	September 23, minimum,	for 1 20 19,	read	1 19 55.
149,	September 23, mean,	for 1 22 40,	read	1 22 28.
159,	October 21, declination at 0*h*.,	for 1 24 01,	read	1 25 01.
201,	February 26, declination at 6*h*.,	for 1 25 42,	read	1 27 42.
201,	February 26, declination at 14*h*.,	for 1 24 51,	read	1 22 26.
201,	February 26, minimum at 16*h*.,	for 1 23 53 at 14*h*.,	read	1 22 26.
201,	February 26, mean,	for 1 26 40,	read	1 25 56.5.
210,	March 24, declination at 14*h*.,	for 1 29 38,	read	1 19 38.
210,	March 24, maximum at 14*h*.,	for 1 29 38 at 20*h*.,	read	1 28 23.
210,	March 24, minimum at 2*h*.,	for 1 22 12 at 14*h*.,	read	1 19 38.
210,	March 24, mean,	for 1 25 55,	read	1 24 00.5.
219,	April 21, declination at 8*h*.,	for 1 33 07,	read	1 35 07.
219,	April 21, declination at 16*h*.,	for 1 24 54,	read	1 29 05.
219,	April 21, declination at 18*h*.,	for 1 29 22,	read	1 28 05.
219,	April 21, declination at 20*h*.,	for 1 33 42,	read	1 27 17.
219,	April 21, declination at 22*h*.,	for 1 35 17,	read	1 27 00.
219,	April 21, maximum at 22*h*.,	for 1 35 17 at 8*h*.,	read	1 35 07.
219,	April 21, mean,	for 1 28 18,	read	1 26 13.
232,	May 28, declination at 10*h*.,	for 1 25 49,	read	1 27 49.
308,	July, barometer at 2*h*.,	for 30.087 inches,	read	30.074 inches.
310,	January, barometer at 22*h* ,	for 39.014 inches,	read	30.014 inches.
311,	April, air thermometer at 20*h*.,	for 55°.11,	read	55°.44.
311,	June, air thermometer at 20*h*.,	for 83 .56,	read	83 .72.
311,	June, air thermometer at 22*h*.,	for 84 .03,	read	84 .38.
312,	July, air thermometer at 20*h*.,	for 81 .53,	read	83 .25.
312,	July, air thermometer at 22*h*.,	for 84 .60,	read	84 .76.
312,	August, air thermometer at 14*h*.,	for 65 .73,	read	71 .39.
313,	October, barometer at 22*h*.,	for 30.146 inches,	read	30.113 inches.
313,	December, air thermometer at 14*h*.,	for 31°.69,	read	31°.88.
314,	February, barometer at noon,	for 30.024 inches,	read	30.041 inches.
315,	June, barometer at 22*h*.,	for 29.996 inches,	read	30.029 inches.
349,	mean of minimum thermometer,	for 73°.58,	read	74°.55.
351,	mean of maximum thermometer,	for 89 .79,	read	89 .19.
351,	mean of minimum thermometer,	for 72 .26,	read	72 .58.
358,	mean of sun thermometer,	for 62 .84,	read	68 .83.
359,	mean of barometer,	for 30.174 inches,	read	30.208 inches.
359,	mean of dry thermometer,	for 34°.37,	read	38°.70.
359,	mean of difference,	for 2 .47,	read	6 .80.
360,	mean of dry thermometer,	for 26 .36,	read	26 .16.
361,	mean of dry thermometer,	for 28 .93,	read	29 .90.
362,	mean of barometer,	for 30.011 inches,	read	30.046 inches.
363,	mean of barometer,	for 30.063 inches,	read	30.034 inches.
364,	mean of dew point,	for 24°.74,	read	24°.63.
366,	mean of barometer,	for 30.119 inches,	read	30.122 inches.
367,	mean of dry thermometer,	for 31°.16,	read	30°.84.
368,	mean of barometer,	for 30.255 inches,	read	30.125 inches.
368,	mean of dew point,	for 24°.05,	read	23°.55.
369,	mean of dew point,	for 28 .82,	read	29 .88.
370,	mean of barometer,	for 30.102 inches,	read	309.10. inches
371,	mean of maximum thermometer,	for 44°.29,	read	43°.93.
373,	mean of barometer,	for 30.096 inches,	read	30.103 inches.
375,	mean of dry thermometer,	for 41°.60,	read	41°.93.
375,	mean of dew point,	for 34 .57,	read	35.22.
375,	mean of rain,	for 0.90 inches,	read	0.94 inches.
376,	mean of dry thermometer,	for 48°.13,	read	47°.80.

Page 376,	mean of difference,	for 10°.03,	read	9°.70.
377,	mean of sun thermometer,	for 73 .29,	read	77 .04.
378,	mean of barometer,	for 30.063 inches,	read	30.029 inches.
381,	mean of sun thermometer,	for 92°.90,	read	87°.90.
381,	mean of dry thermometer,	for 68 .11,	read	67 .47.
381,	mean of dew point,	for 56 .60,	read	54 .34.
381,	mean of difference,	for 11 .51,	read	13 .18.
382,	mean of dew point,	for 52 .98,	read	53 .63.
382,	mean of difference,	for 20 .62,	read	19 .97.
383,	mean of barometer,	for 29.984 inches,	read	29.980 inches.
383,	mean of dry thermometer,	for 61°.43,	read	63°.10.
383,	mean of difference,	for 4 .88,	read	6 .55.
383,	mean of maximum thermometer,	for 79 .04,	read	79 .32.
383,	mean of minimum thermometer,	for 52 .74,	read	53 .10.
387,	mean of minimum thermometer,	for 55 .24,	read	58..69.
390,	mean of dry thermometer,	for 80 .35,	read	81 .00.
391,	mean of minimum thermometer,	for 59 .48,	read	64 .00.
392,	mean of dry thermometer,	for 61 .45,	read	61 .61
392,	mean of difference,	for 2 .84,	read	3 .00.
403,	mean of dew point,	for 53 .90,	read	53 .60.
406,	observation of sun thermometer, 6th, to be erased.			
406,	mean of sun thermometer,	for 63°.63,	read	63 .20.
410,	mean of sun thermometer,	for 57 .17,	read	58 .17.
411,	mean of minimum thermometer,	for 25 .87,	read	27 .07.
422,	mean of barometer,	for 29.899 inches,	read	29.889 inches.
422,	mean of sun thermometer,	for 73°.94,	read	74°.38.
422,	mean of dry thermometer,	for 54 .26,	read	54 .36.
422,	mean of dew point,	for 45 .17,	read	45 .23.
424,	mean of barometer,	for 30.035 inches,	read	30.135 inches.
424,	mean of dew point,	for 39°.89,	read	44°.55.
426,	mean of dry thermometer,	for 65 .76,	read	65 .93.
426,	mean of dew point,	for 48 .76,	read	49 .03.
426,	mean of difference,	for 17 .00,	read	16 .90.
427,	mean of dry thermometer,	for 55 .37,	read	56 .05.
427,	mean of maximum thermometer,	for 72 .10,	read	68 .80.
429,	mean of barometer,	for 30.040 inches,	read	30.033 inches.
429,	mean of dew point,	for 57°.13,	read	56°.47.
429,	mean of difference,	for 6 .94,	read	7 .97.
432,	mean of dew point,	for 57 .64,	read	58 .30.
432,	mean of difference,	for 6 .06,	read	5 .40.
436,	mean of dew point,	for 62 .68,	read	65 .90.
436,	mean of difference,	for 7 .68,	read	4 .46.
437,	mean of dew point,	for 70 .91,	read	71 .52.
437,	mean of difference,	for 5 .43,	read	4 .82.
438,	mean of sun thermometer,	for 97 .14,	read	98 .89.
438,	mean of dry thermometer,	for 79 .27,	read	80 .24.
438,	mean of dew point,	for 72 .42,	read	72 .29.
438,	mean of difference,	for 6 .85,	read	7 .95.
439,	mean of dry thermometer,	for 74 .40,	read	74 .34.
439,	mean of maximum thermometer,	for 84 .70,	read	81 .16.
439,	mean of minimum thermometer,	for 67 .90,	read	67 .58.
440,	mean of barometer,	for 30.039 inches,	read	30.036 inches.
440,	mean of dew point,	for 69°.84,	read	69°.55
440,	mean of difference,	for 2 .34,	read	2 .61.
441,	mean of dew point,	for 72 .87,	read	72 .59.
441,	mean of difference,	for 2 .52,	read	2 .80.
442,	mean of dew point,	for 74 .84,	read	74 .58.
442,	mean of difference,	for 4 .52,	read	4 .78.
443,	mean of minimum thermometer,	for 69 .03,	read	69 .13.
445,	mean of barometer,	for 30.133 inches,	read	30.139 inches.
446,	mean of barometer,	for 30.085 inches,	read	30.092 inches.
446,	erase observations of sun thermometer on the 18th and 27th.			
446,	mean of sun thermometer,	for 81°.86,	read	83°.84.
447,	mean of dry thermometer,	for 61 .55,	read	61 .62.
447,	mean of dew point,	for 58 .20,	read	57 .87.
447,	mean of difference,	for 3 .35,	read	3 .75.

ERRATA.

Page 447,	mean of minimum thermometer,	for 51°.09,	read	51°.57.
450,	mean of sun thermometer,	for 77 .25,	read	76 .75.
452,	mean of dew point,	for 31 .66,	read	32 .86
454,	mean of barometer,	for 29.936 inches,	read	29.959 inches.
454,	mean of sun thermometer,	for 66°.64,	read	68°.58.
454,	mean of dry thermometer,	for 49 .93,	read	50 .07.
454,	mean of difference, insert			9 .81.
455,	mean of dry thermometer,	for 41 .67,	read	41 .97.
455,	mean of difference,	for 5 .97,	read	6 .27.
455,	mean of minimum thermometer,	for 33 .23,	read	32 .07.
457,	mean of sun thermometer,	for 38 .46,	read	39 .28.
457,	mean of dew point,	for 24 .34,	read	23 .76.
457,	mean of difference,	for 5 .34,	read	5 .92.
463,	mean of dry thermometer,	for 32 .60,	read	31 .63.
464,	mean of barometer,	for 29.906 inches,	read	29.902 inches.
465,	mean of difference,	for 5°.60,	read	5°.34.
466,	mean of attached thermometer,	for 45 .25,	read	42 .39.
466,	mean of sun thermometer,	for 56 .58,	read	59 .72.
466,	mean of dry thermometer,	for 39 .21,	read	39 .28.
467,	mean of dry thermometer,	for 30 .42,	read	30 .55.
468,	difference, 15th,	for 0 .00,	read	18 .00.
468,	difference, 22d,	for 10 .00,	read	12 .00.
468,	difference, 27th,	for 6 .00,	read	5 .00.
468,	mean of barometer,	for 29.859 inches,	read	29.892 inches.
468,	mean of attached thermometer,	for 52°.53,	read	48°.98.
468,	mean of dew point,	for 28 .71,	read	27 .89.
468,	mean of difference,	for 6 .64,	read	7 .46.
469,	mean of barometer,	for 29.935 inches,	read	29.926 inches.
469,	mean of sun thermometer,	for 58°.21,	read	59°.52.
469,	mean of dry thermometer,	for 42 .14,	read	42 .21.
470,	erase observations of sun thermometer of 19th, 26th, and 27th.			
470,	mean of sun thermometer,	for 69°.28,	read	72°.27.
471,	mean of dry thermometer,	for 40 .58,	read	40 .74.
471,	mean of dew point,	for 32 .80,	read	32 .90.
471,	mean of difference,	for 8 .58,	read	7 .64.
471,	mean of minimum thermometer,	for 35 .61,	read	33 .66.
473,	mean of barometer,	for 29.900 inches,	read	29.913 inches.
473,	mean of attached thermometer,	for 52°.2,	read	55°.5.
473,	mean of dry thermometer,	for 49 .14,	read	48 .81.
473,	mean of dew point,	for 40 .96,	read	40 .99.
474,	mean of wet thermometer,	for 50 .29,	read	53 .57.
475,	mean of attached thermometer,	for 57 .8,	read	58 .5.
475,	mean of minimum thermometer,	for 40 .47,	read	40 .80.
476,	mean of barometer,	for 29.864 inches,	read	29.866 inches.
476,	mean of wet thermometer,	for 49°.56,	read	49°.32.
479,	mean of maximum thermometer,	for 74 .90,	read	68 .46.
480,	mean of barometer,	for 29.879 inches,	read	29.846 inches.
481,	mean of sun thermometer,	for 93°.09,	read	93°.18.
482,	mean of dry thermometer,	for 83 .90,	read	83 .80.
483,	mean of minimum thermometer,	for 66 .43,	read	64 .77.
490,	mean of barometer,	for 30.031 inches,	read	30.038 inches.
493,	mean of barometer,	for 30.066 inches,	read	30.069 inches.
497,	2d, difference of wet and dry,	for 1°.5,	read	3°.5.
497,	mean of difference,	for 2 .52,	read	2 .58.
498,	mean of sun thermometer,	for 72 .05,	read	75 .55.
503,	mean of wet thermometer,	for 41°.42,	read	41°.35.
503,	mean of minimum thermometer,	for 36 .83,	read	37 .17.
505,	mean of attached thermometer,	for 43 .7,	read	44 .7.
507,	mean of attached thermometer,	for 43 .7,	read	47 .07.
509,	mean of wet thermometer,	for 31 .27,	read	36 .79.

Magnetical and Meteorological Observations

MADE AT

WASHINGTON CITY,

UNDER ORDERS OF

THE HONORABLE SECRETARY OF THE NAVY,

DATED

AUGUST 13, 1838.

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 7, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00						Maximum at hours
2 00 00						Minimum at hours
4 00 00						Mean - - -
6 00 00						
8 00 00						
10 00 00						REMARKS.
Noon						
14 00 00						At 19 hours, adjusted the micrometers and needle.
16 00 00						
18 00 00						
20 00 00	1 23 08	30.231		73.5	82.5	
22 00 00	1 21 54	30.212			80.0	
JULY 8, 1840.						
0 00 00	1 20 54	30.232		71.0	78.0	Maximum at 20 hours - 1 23 29
2 00 00	1 20 23	30.250			74.5	Minimum at 14 hours - 1 16 27
4 00 00	1 19 04	30.250			72.5	Mean - - - 1 19 58
6 00 00	1 17 50	30.250		71.0	71.5	
8 00 00	1 18 21	30.210			73.5	
10 00 00	1 17 20	30.200			72.0	
Noon	1 16 57	30.200		73.5	73.0	
14 00 00	1 16 27	30.200			74.0	
16 00 00	1 19 11	30.200			76.0	
18 00 00	1 21 57	30.150			81.0	
20 00 00	1 23 29	30.122			84.0	
22 00 00	1 20 00	30.060			83.0	
JULY 9, 1840.						
0 00 00	1 19 43	30.060			81.0	Maximum at 20 hours - 1 23 59
2 00 00	1 18 26	30.050			77.0	Minimum at 14 hours - 1 12 15
4 00 00	1 19 21	30.050			75.0	Mean - - - 1 18 07
6 00 00	1 19 14	30.050			73.0	
8 00 00	1 20 17	30.050			74.0	
10 00 00	1 15 28	30.026			74.0	
Noon	1 14 55	30.024			73.0	
14 00 00	1 12 15	30.024			74.0	
16 00 00	1 17 19	30.030			74.0	
18 00 00	1 22 00	30.040			77.0	
20 00 00	1 23 59	30.032			79.0	
22 00 00	1 21 47	30.020			81.0	

OBSERVATIONS AT WASHINGTON—1840.

			Thermometers.			
Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
JULY 10, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 35	30.020			79.0	Maximum at 20 hours - 1 24 46
2 00 00	1 22 29	30.020			78.0	Mimimum at 14 hours - 1 14 50
4 00 00	1 16 39	30.020			77.0	Mean - - - 1 19 48
6 00 00	1 15 03	30.020			74.0	
8 00 00	1 21 39	30.020			71.0	
10 00 00	1 21 49	30.020			70.0	
Noon	1 14 54	30.020			71.0	
14 00 00	1 14 50	30.020			74.0	
16 00 00	1 20 59	30.032			82.0	
18 00 00	1 21 17	30.032			84.0	
20 00 00	1 24 46	30.118			86.0	
22 00 00	1 21 38	30.119			87.0	
JULY 11, 1840.						
0 00 00	1 19 06	30.120			86.0	Maximum at 22 hours - 1 24 59
2 00 00	1 17 19	30.130			81.0	Minimum at 4 hours - 1 14 08
4 00 00	1 14 08	30.130			78.0	Mean - - - 1 19 33.5
6 00 00	1 14 44	30.130			75.0	
8 00 00	1 17 25	30.130			73.0	
10 00 00	1 14 17	30.130			71.0	
Noon	1 14 39	30.130			72.0	
14 00 00	1 15 18	30.120			79.0	
16 00 00	1 18 37	30.154			76.0	
18 00 00	1 21 53	30.156			88.0	
20 00 00	1 23 57	30.160			89.0	
22 00 00	1 24 59	30.150			90.0	
JULY 12, 1840.						
0 00 00	1 22 17	30.144			84.0	Maximum at 20 hours - 1 25 48
2 00 00	1 20 33	30.130			80.0	Minimum at 14 hours - 1 16 39
4 00 00	1 19 04	30.090			79.0	Mean - - - 1 21 13.5
6 00 00	1 17 29	30.080			75.0	
8 00 00	1 18 46	30.080			74.0	
10 00 00	1 19 40	30.068			73.0	REMARKS.
Noon	1 19 01	30.078			72.0	
14 00 00	1 16 39	30.100			81.0	Examined adjustments of the instrument at 19 hours.
16 00 00	1 20 20	30.120			86.0	
18 00 00	1 24 29	30.154			89.5	
20 00 00	1 25 48	30.120			89.5	
22 00 00	1 23 26	30.120			89.5	

JULY 13, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	*Inches.*	°	°	°
0 00 00	1 21 22	30.030			89.0
2 00 00	1 19 17	30.030			88.0
4 00 00	1 18 52	30.030			88.0
6 00 00	1 18 47	30.010			77.0
8 00 00	1 19 59	30.008			77.0
10 00 00	1 15 23	29.912			76.0
Noon	1 14 48	29.912			76.0
14 00 00	1 15 44	29.912			76.0
16 00 00	1 17 35	29.934			82.0
18 00 00	1 22 20	29.934			82.0
20 00 00	1 24 57	29.854			82.0
22 00 00	1 22 25	29.830			82.0

° ′ ″
Maximum at 20 hours - 1 24 57
Minimum at 12 hours - 1 14 48
Mean - - - 1 19 32.5

JULY 14, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 18 33	29.830			82.0
2 00 00	1 19 00	29.830			82.0
4 00 00	1 19 07	29.820			80.0
6 00 00	1 18 32	29.816			79.0
8 00 00	1 16 45	29.816			76.0
10 00 00	1 17 18	29.814			75.0
Noon	1 12 46	29.814			77.0
14 00 00	1 17 36	29.814			82.0
16 00 00	1 23 06	29.950			85.0
18 00 00	1 23 48	29.950			87.0
20 00 00	1 26 37	29.950			90.0
22 00 00	1 21 41	29.939			98.0

Maximum at 20 hours - 1 26 37
Minimum at 12 hours - 1 12 46
Mean - - - 1 19 41.5

REMARKS.

Observations at 0 hours and 2 hours doubtful, in consequence of excessive vibration.

JULY 15, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 29 54	29.989			91.0
2 00 00	1 28 17	30.008			82.0
4 00 00	1 16 28	30.008			77.0
6 00 00	1 17 57	30.010			75.0
8 00 00	1 17 45	30.012			75.0
10 00 00	1 16 37	30.012			69.0
Noon	1 13 25	30.039			73.0
14 00 00	1 11 57	30.103			78.0
16 00 00	1 14 55	30.180			90.0
18 00 00	1 22 06	30.124			91.0
20 00 00	1 24 25	30.104			93.0
22 00 00	1 19 04	30.150			92.0

Maximum at 0 hours - 1 29 54
Minimum at 14 hours - 1 11 57
Mean - - - 1 20 55.5

REMARKS.

At 16 hours 20′, examined the adjustments of the instrument.

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 16, 1840.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 18 15	30.140			91.0	Maximum at 22 hours - 1 26 49
2 00 00	1 18 11	30.130			88.0	Minimum at 16 hours - 1 11 05
4 00 00	1 19 25	30.130			78.0	Mean - - - 1 18 57
6 00 00	1 20 15	30.135			78.0	
8 00 00	1 17 24	30.135			74.0	
10 00 00	1 14 24	30.135			76.0	
Noon	1 14 04	30.135			74.0	
14 00 00	1 11 09	30.135			88.0	
16 00 00	1 11 05	30.126			90.0	
18 00 00	1 18 16	30.128			93.0	
20 00 00	1 20 56	30.126			97.0	
22 00 00	1 26 49	30.121			94.0	
JULY 17, 1840.						
0 00 00	1 20 19	30.120			90.0	Maximum at 20 hours - 1 22 07
2 00 00	1 16 14	30.119			85.0	Minimum at 8 hours - 1 08 25
4 00 00	1 15 01	30.118			83.0	Mean - - - 1 15 16
6 00 00	1 15 03	30.118			80.0	
8 00 00	1 08 25	30.119			78.0	
10 00 00	1 10 54	30.118			76.0	REMARKS.
Noon	1 16 57	30.112			78.0	
14 00 00	1 18 21	30.112			82.0	At 18 hours, instrument in the sun.
16 00 00	1 13 29	30.172			90.0	Thermometer in the sun, 101°.
19 00 00	1 19 58	30.172			91.0	
20 00 00	1 22 07	30.130			93.0	
22 00 00	1 20 58	30.046			94.0	
JULY 18, 1840.						
0 00 00	1 18 34	30.046			93.0	Maximum at 20 hours - 1 21 05
2 00 00	1 14 08	30.046			87.0	Minimum at 8 hours - 1 10 57
4 00 00	1 13 05	30.046			87.0	Mean - - - 1 16 01
6 00 00	1 16 32	30.046			82.0	
8 00 00	1 10 57	30.016			80.0	
10 00 00	1 18 31	30.016			79.0	
Noon	1 17 37	30.024			78.0	
14 00 00	1 15 54	30.046			80.0	
16 00 00	1 16 46	30.126			92.0	
18 00 00	1 20 02	30.126			90.0	
20 00 00	1 21 05	30.100			87.0	
22 00 00	1 20 54	30.100			83.0	

JULY 19, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 16 59	30.058			80.0	Maximum at 20 hours - 1 23 51
2 00 00	1 17 51	30.056			78.0	Minimum at 10 hours - 1 11 54
4 00 00	1 17 46	30.050			77.0	Mean - - - 1 17 52.5
6 00 00	1 14 35	30.068			77.0	
8 00 00	1 12 35	30.060			76.0	
10 00 00	1 11 54	30.036			76.0	
Noon	1 13 53	30.036			76.0	
14 00 00	1 12 56	30.036			80.0	
16 00 00	1 14 46	30.104			90.0	
18 00 00	1 20 44	30.034			90.0	
20 00 00	1 23 51	30.030			95.0	
22 00 00	1 23 18	30.030			94.0	

JULY 20, 1840.

0 00 00	1 18 09	29.974			91.0	Maximum at 20 hours - 1 25 52
2 00 00	1 18 13	30.000			84.0	Minimum at 14 hours - 1 11 12
4 00 00	1 18 15	30.000			81.0	Mean - - - 1 18 32
6 00 00	1 19 16	30.056			76.0	
8 00 00	1 14 11	30.080			74.0	
10 00 00	1 16 58	30.134			68.0	
Noon	1 15 06	30.138			68.0	
14 00 00	1 11 12	30.138			77.0	
16 00 00	1 14 55	30.126			82.0	
18 00 00	1 19 16	30.126			82.0	
20 00 00	1 25 52	30.126			85.0	
22 00 00	1 21 34	30.126			84.0	

JULY 21, 1840.

0 00 00	1 19 19	30.126			82.0	Maximum at 22 hours - 1 26 44
2 00 00	1 18 41	30.126			76.0	Minimum at 14 hours - 1 13 59
4 00 00	1 17 50	30.126			66.0	Mean - - - 1 20 21.5
6 00 00	1 17 28	30.128			62.0	
8 00 00	1 17 39	30.128			61.0	
10 00 00	1 17 14	30.128			60.0	
Noon	1 16 49	30.128			62.0	
14 00 00	1 13 59	30.144			74.0	
16 00 00	1 21 04	30.200			82.0	
18 00 00	1 21 41	30.172			87.0	
20 00 00	1 26 14	30.172			86.0	
22 00 00	1 26 44	30.150			85.0	

OBSERVATIONS AT WASHINGTON—1840.

JULY 22, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	*Inches.*	°	°	°
0 00 00	1 20 14	30.160			83.0
2 00 00	1 15 46	30.160			76.0
4 00 00	1 16 12	30.164			74.0
6 00 00	1 16 13	30.162			70.0
8 00 00	1 16 17	30.168			66.0
10 00 00	1 15 37	30.168			64.0
Noon	1 11 58	30.200			63.0
14 00 00	1 15 14	30.208			77.0
16 00 00	1 15 10	30.230			86.0
18 00 00	1 20 36	30.230			88.0
20 00 00	1 21 33	30.230			88.0
22 00 00	1 20 17	30.216			85.0

	° ′ ″
Maximum at 20 hours -	1 21 33
Minimum at 12 hours -	1 11 58
Mean - - -	1 16 45.5

REMARKS.

At 18 hours, instrument in the sun; needle vibrating 7′ 18″; thermometer 94°.

JULY 23, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 18 10	30.188			82.0
2 00 00	1 16 54	30.174			78.0
4 00 00	1 15 54	30.174			77.0
6 00 00	1 12 32	30.156			73.0
8 00 00	1 09 23	30.126			72.0
10 00 00	1 12 45	30.126			72.0
Noon	1 10 48	30.100			72.0
14 00 00	1 08 41	30.080			74.0
16 00 00	1 16 44	30.088			75.0
18 00 00	1 20 13	30.089			75.0
20 00 00	1 21 16	30.000			74.0
22 00 00	1 18 44	29.946			73.0

Maximum at 20 hours -	1 21 16
Minimum at 14 hours -	1 08 41
Mean - - -	1 14 58.5

JULY 24, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 17 16	29.800			72.0
2 00 00	1 14 56				72.0
4 00 00	1 16 50	29.780			71.0
6 00 00	1 16 24	29.800			71.0
8 00 00	1 15 54	29.786			71.0
10 00 00	1 19 49	29.786			70.0
Noon	1 11 49	29.786			75.0
14 00 00	1 14 49	29.800			75.0
16 00 00	1 16 41	29.816			80.0
18 00 00	1 21 24	29.834			78.0
20 00 00	1 22 21	29.860			79.0
22 00 00	1 19 45	29.860			80.0

Maximum at 20 hours -	1 22 21
Minimum at 12 hours -	1 11 49
Mean - - -	1 17 05

REMARKS.

See extraordinary observations.

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 25, 1840.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 17 24	29.900			81.0	Maximum at 22 hours - 1 20 26
2 00 00	1 18 59	29.932			77.0	Minimum at 12 hours - 1 14 24
4 00 00	1 16 32	29.962			72.0	Mean - - - 1 17 20
6 00 00	1 17 19	30.000			71.0	
8 00 00	1 17 02	30.000			68.0	
10 00 00	1 16 40	30.050			66.0	
Noon	1 14 34	30.100			70.0	
14 00 00	1 15 14	30.148			75.0	
16 00 00	1 16 57	30.182			76.0	
18 00 00	1 18 13	30.182			79.0	
20 00 00	1 19 03	30.182			81.0	
22 00 00	1 20 26	30.188			83.0	
JULY 26, 1840.						
0 00 00	1 19 00	30.188			83.0	Maximum at 18 hours - 1 23 31
2 00 00	1 19 21	30.188			82.0	Minimum at 12 hours - 1 13 18
4 00 00	1 18 50	30.188			76.0	Mean - - - 1 18 24.5
6 00 00	1 15 41	30.200			69.0	
8 00 00	1 18 42	30.222			66.0	REMARKS.
10 00 00	1 14 01	30.222			62.0	
Noon	1 13 18	30.222			62.0	
14 00 00	1 13 51	30.222			66.0	See extraordinary observations.
16 00 00	1 21 05	30.250			76.0	
18 00 00	1 23 31	30.250			84.0	
20 00 00	1 22 10	30.250			86.0	
22 00 00	1 19 51	30.200			86.0	
JULY 27, 1840.						
0 00 00	1 18 21	30.200			83.0	Max. at 18 & 20 hours 1 22 48
2 00 00	1 18 36	30.200			80.0	Minimum at 14 hours - 1 11 54
4 00 00	1 17 29	30.250			74.0	Mean - - - 1 17 21
6 00 00	1 17 56	30.250			71.0	
8 00 00	1 16 55	30.250			70.0	
10 00 00	1 14 49	30.250			70.0	
Noon	1 14 02	30.250			71.0	
14 00 00	1 11 54	30.250			79.0	
16 00 00	1 17 51	30.250			84.0	
18 00 00	1 22 48	30.280			86.0	
20 00 00	1 22 48	30.260			88.0	
22 00 00	1 18 47	30.214			87.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
JULY 28, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 16 14	30.214			84.0	Maximum at 20 hours - 1 23 44
2 00 00	1 18 58	30.210			78.0	Minimum at 14 hours - 1 10 14
4 00 00	1 18 33	30.210			76.0	Mean - - - 1 16 59
6 00 00	1 17 21	30.210			73.0	
8 00 00	1 15 58	30.210			74.0	
10 00 00	1 17 51	30.172			72.0	REMARKS.
Noon	1 15 38	30.172			74.0	See extraordinary observations.
14 00 00	1 10 14	30.172			77.0	
16 00 00	1 17 04	30.150			82.0	
18 00 00	1 23 01	30.100			86.0	
20 00 00	1 23 44	30.066			90.0	
22 00 00	1 20 49	30.026			88.0	
JULY 29, 1840.						
0 00 00	1 17 46	30.036			87.0	Maximum at 20 hours - 1 22 07
2 00 00	1 17 24	30.030			84.0	Minimum at 14 hours - 1 10 31
4 00 00	1 16 29	30.016			84.0	Mean - - - 1 16 19
6 00 00	1 17 48	30.018			82.0	
8 00 00	1 14 44	30.010			81.0	
10 00 00	1 13 58	30.000			80.0	
Noon	1 12 55	30.058			81.0	
14 00 00	1 10 31	30.048			80.0	
16 00 00	1 14 33	30.052			82.0	
18 00 00	1 21 16	30.046			87.0	
20 00 00	1 22 07	30.046			88.0	
22 00 00	1 20 45	30.024			89.0	
JULY 30, 1840.						
0 00 00	1 19 35	30.040			88.0	Maximum at 20 hours - 1 22 50
2 00 00	1 16 27	30.060			80.0	Minimum at 14 hours - 1 12 34
4 00 00	1 14 38	30.068			77.0	Mean - - - 1 17 42
6 00 00	1 17 46	30.068			74.0	
8 00 00	1 17 26	30.088			70.0	
10 00 00	1 16 39	30.106			69.0	REMARKS.
Noon	1 14 20	30.154			69.0	
14 00 00	1 12 34	30.172			72.0	From 3*h.* 30*m.* to 4*h.* 10*m.*, slight indications of the Aurora Borealis. Summer light to the S. S. E.
16 00 00	1 15 55	30.196			77.0	
18 00 00	1 21 16	30.200			82.0	
20 00 00	1 22 50	30.200			87.0	
22 00 00	1 19 56	30.200			85.0	

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 31, 1840.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 16 24	30.146			82.0	Maximum at 20 hours - 1 21 47
2 00 00	1 16 50	30.140			80.0	Minimum at 14 hours - 1 12 33
4 00 00	1 17 31	30.150			80.0	Mean - - - 1 17 10
6 00 00	1 17 00	30.150			76.0	
8 00 00	1 15 27	30.150			76.0	
10 00 00	1 16 14	30.144			72.0	
Noon	1 13 54	30.150			74.0	
14 00 00	1 12 33	30.146			75.0	
16 00 00	1 16 47	30.160			78.0	
18 00 00	1 21 05	30.160			79.0	
20 00 00	1 21 47	30.130			80.0	
22 00 00	1 20 18	30.080			75.0	
AUGUST 1, 1840.						
0 00 00	1 20 22	30.070			76.0	Maximum at 20 hours - 1 22 04
2 00 00	1 17 51	30.070			74.0	Minimum at 14 hours - 1 13 13
4 00 00	1 17 54	30.060			72.0	Mean - - - 1 17 38.5
6 00 00	1 16 25	30.050			73.0	
8 00 00	1 17 30	30.050			71.0	
10 00 00	1 16 49	30.028			70.0	
Noon	1 15 01	30.028			70.0	
14 00 00	1 13 13	30.076			78.0	
16 00 00	1 17 56	30.094			80.0	
18 00 00	1 21 22	30.060			86.0	
20 00 00	1 22 04	30.050			89.0	
22 00 00	1 19 43	30.050			89.0	
AUGUST 2, 1840.						
0 00 00	1 14 59	30.040			87.0	Max. at 18 & 20 hours - 1 21 59
2 00 00	1 16 19	30.050			80.0	Minimum at 14 hours - 1 11 16
4 00 00	1 16 53	30.050			78.0	Mean - - - 1 16 37.5
6 00 00	1 17 24	30.060			76.0	
8 00 00	1 15 12	30.040			76.0	
10 00 00	1 14 43	30.040			75.0	
Noon	1 13 16	30.050			73.0	
14 00 00	1 11 16	30.020			76.0	
16 00 00	1 19 31	30.026			80.0	
18 00 00	1 21 59	30.010			84.0	
20 00 00	1 21 59	30.000			86.0	
22 00 00	1 19 54	29.992			88.0	

OBSERVATIONS AT WASHINGTON—1840.

AUGUST 3, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 18 09	29.970			83.0	Maximum at 20 hours - 1 22 08
2 00 00	1 18 24	29.960			80.0	Minimum at 14 hours - 1 10 31
4 00 00	1 18 12	29.972			79.0	Mean - - - 1 16 19.5
6 00 00	1 17 16	29.942			76.0	
8 00 00	1 15 44	29.928			75.0	
10 00 00	1 16 51	29.924			74.0	
Noon	1 12 31	29.926			74.0	
14 00 00	1 10 31	29.940			74.0	
16 00 00	1 15 01	29.944			76.0	
18 00 00	1 21 45	29.880			82.0	
20 00 00	1 22 08	29.876			86.0	
22 00 00	1 18 50	29.856			86.0	

AUGUST 4, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 17 13	29.910			85.0	Maximum at 18 hours - 1 23 10
2 00 00	1 18 01	29.910			83.0	Minimum at 14 hours - 1 11 00
4 00 00	1 17 52	29.942			81.0	Mean - - - 1 17 05
6 00 00	1 17 00	29.942			80.0	
8 00 00	1 17 26	29.968			78.0	
10 00 00	1 15 57	29.968			76.0	
Noon	1 11 35	29.968			76.0	
14 00 00	1 11 00	29.958			82.0	
16 00 00	1 16 16	29.900			86,0	
18 00 00	1 23 10	29.890			89.0	
20 00 00	1 22 36	29.886			88.0	
22 00 00	1 19 46	29.880			86.0	

AUGUST 5, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 17 41	29.880			84.0	Maximum at 18 hours - 1 21 31
2 00 00	1 18 55	29.875			82.0	Minimum at 14 hours - 1 10 46
4 00 00	1 18 55	29.880			80.0	Mean - - - 1 16 08.5
6 00 00	1 18 34	29.890			78.0	
8 00 00	1 17 59	29.890			78.0	
10 00 00	1 17 39	29.890			78.0	
Noon	1 13 40	29.890			80.0	
14 00 00	1 10 46	29.916			80.0	
16 00 00	1 16 41	29.916			82.0	
18 00 00	1 21 31	29.900			86.0	
20 00 00	1 19 56	29.884			89.0	
22 00 00	1 18 58	29.864			91.0	

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
AUGUST 6, 1840.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 18 34	29.900			86.0	Maximum at 18 hours - 1 22 06
2 00 00	1 18 24	29.900			78.0	Minimum at 14 hours - 1 10 23
4 00 00	1 17 28	29.904			74.0	Mean - - - 1 16 14.5
6 00 00	1 17 09	29.904			71.0	
8 00 00	1 16 18	29.900			68.0	
10 00 00	1 15 21	29 900			68.0	REMARKS.
Noon	1 12 20	29.900			78.0	
14 00 00	1 10 23	29.900			74.0	See extraordinary observations.
16 00 00	1 16 52	29.850			80.0	
18 00 00	1 22 06	29.832			82.0	
20 00 00	1 19 48	29.880			85.0	
22 00 00	1 19 37	29.782			87.0	
AUGUST 7, 1840.						
0 00 00	1 18 21	29.800			84.0	Maximum at 18 hours - 1 21 59
2 00 00	1 18 17	29.762			84 0	Minimum at 14 hours - 1 12 17
4 00 00	1 18 35	29.736			79.0	Mean - - - 1 17 08
6 00 00	1 17 29	29.736			82.0	
8 00 00	1 16 59	29.736			82.0	
10 00 00	1 16 25	29.720			82.0	REMARKS.
Noon	1 15 45	29.740			81.0	
14 00 00	1 12 17	29.840			84.0	See extraordinary observations.
16 00 00	1 15 26	29.850			84.0	
18 00 00	1 21 59	29.856			82.0	
20 00 00	1 21 03	29.858			78.0	
22 00 00	1 18 39	29.860			68.0	
AUGUST 8, 1840.						
0 00 00	1 15 43	29.850			66.0	Maximum at 20 hours - 1 31 37
2 00 00	1 16 24	29.864			68.0	Minimum at 10 hours - 1 13 26
4 00 00	1 16 01	29.864			72.0	Mean - - - 1 22 31.5
6 00 00	1 15 34	29.864			72.0	
8 00 00	1 16 05	29.884			66.0	
10 00 00	1 13 26	29.830			70.0	REMARKS.
Noon	1 16 36	29.876			70.0	
14 00 00	1 18 31	29.900			70.0	See extraordinary observations.
16 00 00	1 25 57	29.920			75.0	
18 00 00	1 24 12	29.920			79.0	
20 00 00	1 31 37	29.920			80.0	
22 00 00	1 23 58	29.944			81.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
AUGUST 9, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 44	29.960			79.0	Maximum at 18 hours - 1 21 51
2 00 00	1 17 46	29.988			74.0	Minimum at 12 hours - 1 12 31
4 00 00	1 18 19	30.028			70.0	Mean - - - 1 17 11
6 00 00	1 17 09	30.034			70.0	
8 00 00	1 19 28	30.034			70.0	
10 00 00	1 14 42	30.068			69.0	
Noon	1 12 31	30.120			70.9	
14 00 00	1 12 39	30.154			75.0	
16 00 00	1 18 33	30.142			80.0	
18 00 00	1 21 51	30.140			81.0	
20 00 00	1 21 32	30.140			83.0	
22 00 00	1 16 19	30.140			84.0	
AUGUST 10, 1840.						
0 00 00	1 16 59	30.150			83.0	Maximum at 20 hours - 1 24 04
2 00 00	1 18 29	30.150			75.0	Minimum at 14 hours - 1 11 14
4 00 00	1 18 14	30.150			70.0	Mean - - - 1 17 39
6 00 00	1 17 46	30.150			70.0	
8 00 00	1 16 25	30.156			68.0	
10 00 00	1 15 42	30.200			66.0	
Noon	1 12 01	30.200			65.0	
14 00 00	1 11 14	30.250			74.0	
16 00 00	1 18 52	30.278			82.0	
18 00 00	1 23 41	30.250			84.0	
20 00 00	1 24 04	30.232			84.0	
22 00 00	1 21 29	30.220			84.0	
AUGUST 11, 1840.						
0 00 00	1 17 05	30.200			82.0	Maximum at 20 hours - 1 22 00
2 00 00	1 15 01	30.174			76.0	Minimum at 14 hours - 1 10 12
4 00 00	1 16 39	30.174			74.0	Mean - - - 1 16 06
6 00 00	1 17 21	30.160			72.0	
8 00 00	1 17 44	30.150			72.0	
10 00 00	1 15 27	30.150			71.0	
Noon	1 11 01	30.150			70.0	
14 00 00	1 10 12	30.164			75.0	
16 00 00	1 15 04	30.140			83.0	
18 00 00	1 19 17	30.140			87.0	
20 00 00	1 22 00	30.086			86.0	
22 00 00	1 16 52	30.030			86.0	

AUGUST 12, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 16 28	30.040			83.0	Maximum at 18 hours - 1 23 01
2 00 00	1 18 32	30.030			78.0	Minimum at 14 hours - 1 12 16
4 00 00	1 18 08	30.030			75.0	Mean - - - 1 17 38.5
6 00 00	1 17 21	30.030			73.0	
8 00 00	1 16 36	30.020			72.0	
10 00 00	1 16 22	30.010			71.0	
Noon	1 13 17	30.010			74.0	
14 00 00	1 12 16	30.010			77.0	
16 00 00	1 20 26	30.000			84.0	
18 00 00	1 23 01	29.980			86.0	
20 00 00	1 21 59	29.916			89.0	
22 00 00	1 19 01	29.900			86.0	

AUGUST 13, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 17 59	29.880			84.0	Maximum at 20 hours - 1 22 29
2 00 00	1 17 39	29.898			82.0	Minimum at 14 hours - 1 10 02
4 00 00	1 16 16	29.900			80.0	Mean - - - 1 16 15.5
6 00 00	1 17 12	29.884			80.0	
8 00 00	1 18 01	29.862			80.0	
10 00 00	1 15 11	29.840			78.0	
Noon	1 11 48	29.840			78.0	
14 00 00	1 10 02	29.810			79.0	
16 00 00	1 15 35	29.800			79.0	
18 00 00	1 21 49	29.786			78.0	
20 00 00	1 22 29	29.782			77.0	
22 00 00	1 19 45	29.684			78.0	

AUGUST 14, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 17 50	29.658			76.0	Maximum at 18 hours - 1 24 15
2 00 00	1 17 50	29.724			74 0	Minimum at 12 hours - 1 12 04
4 00 00	1 18 11	29.708			73.0	Mean - - - 1 18 09.5
6 00 00	1 17 20	29.734			74.0	
8 00 00	1 15 59	29.746			74.0	
10 00 00	1 15 59	29.760			73.0	
Noon	1 12 04	29.790			72.0	
14 00 00	1 12 06	29.818			78.0	
16 00 00	1 17 26	29.826			84.0	
18 00 00	1 24 15	29.850			83.0	
20 00 00	1 23 00	29.850			85.0	
22 00 00	1 20 27	29.850			84.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
AUGUST 15, 1840.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 19 07	29.850			80.0	Maximum at 18 hours - 1 23 19
2 00 00	1 17 21	29.868			78.0	Minimum at 14 hours - 1 10 25
4 00 00	1 15 47	29.932			74.0	Mean - - - - 1 16 52
6 00 00	1 14 26	29.940			72.0	
8 00 00	1 15 44	29.986			68.0	
10 00 00	1 18 35	29.988			66.0	
Noon	1 14 23	30.036			66.0	
14 00 00	1 10 25	30.050			76.0	
16 00 00	1 16 39	30.052			82.0	
18 00 00	1 23 19	30.052			84.0	
20 00 00	1 23 14	30.052			85.0	
22 00 00	1 19 14	30.052			84.0	
AUGUST 16, 1840.						
0 00 00	1 17 09	30.062			81.0	Maximum at 20 hours - 1 24 45
2 00 00	1 18 02	30.110			74.0	Minimum at 14 hours - 1 10 25
4 00 00	1 18 02	30.110			75.0	Mean - - - - 1 17 25
6 00 00	1 17 34	30.140			75.0	
8 00 00	1 17 04	30.140			74.0	
10 00 00	1 16 18	30.140			74.0	
Noon	1 12 33	30.160			74.0	
14 00 00	1 10 25	30.200			76.0	
16 00 00	1 14 41	30.216			78.0	
18 00 00	1 23 31	30.230			80.0	
20 00 00	1 24 45	30.240			84.0	
22 00 00	1 21 38	30.250			88.0	
AUGUST 17, 1840.						
0 00 00	1 17 56	30.296			83.0	Max. at 18 and 20 hours 1 22 35
2 00 00	1 15 23	30.260			80.0	Minimum at 14 hours - 1 11 04
4 00 00	1 17 41	30.290			76.0	Mean - - - - 1 16 49.5
6 00 00	1 17 36	30.280			72.0	
8 00 00	1 17 14	30.300			70.0	
10 00 00	1 14 56	30.300			70.0	
Noon	1 11 51	30.332			71.0	
14 00 00	1 11 04	30.370			74.0	
16 00 00	1 19 17	30.394			79.0	
18 00 00	1 22 35	30.398			82.0	
20 00 00	1 22 35	30.362			82.0	
22 00 00	1 18 57	30.374			80.0	

AUGUST 18, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 16 23	30.374			79.0	Maximum at 20 hours - 1 22 37
2 00 00	1 18 13	30.384			77.0	Minimum at 14 hours - 1 10 26
4 00 00	1 17 26	30.400			75.0	Mean - - - - 1 16 21.5
6 00 00	1 17 28	30.400			75.0	
8 00 00	1 16 32	30.384			73.0	
10 00 00	1 15 44	30.386			72.0	
Noon	1 12 35	30.398			70.0	
14 00 00	1 10 26	30.424			70.0	
16 00 00	1 15 51	30.426			75.0	
18 00 00	1 22 13	30.400			81.0	
20 00 00	1 22 37	30.400			82.0	
22 00 00	1 19 28	30.350			82.0	

AUGUST 19, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 17 00	30.350			78.0	Maximum at 18 hours - 1 23 35
2 00 00	1 17 56	30.348			75.0	Minimum at 14 hours - 1 10 26
4 00 00	1 16 58	30.348			71.0	Mean - - - - 1 17 00.5
6 00 00	1 12 06	30.340			69.0	
8 00 00	1 15 39	30.300			67.0	
10 00 00	1 12 06	30.298			65.0	
Noon	1 11 22	30.298			65.0	
14 00 00	1 10 26	30.290			76.0	
16 00 00	1 19 38	30.200			80.0	
18 00 00	1 23 35	30.300			82.0	
20 00 00	1 21 09	30.260			83.0	
22 00 00	1 21 23	30.200			83.0	

AUGUST 20, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 17 20	30.200			80.0	Maximum at 18 hours - 1 22 11
2 00 00	1 07 15	30.190			75.0	Minimum at 4 hours - 0 55 19
4 00 00	0 55 19	30.170			74.0	Mean - - - - 1 08 45
6 00 00	1 13 51	30.130			74.0	
8 00 00	1 14 36	30.150			73.0	
10 00 00	1 15 00	30.150			70.0	
Noon	1 12 54	30.120			70.0	REMARKS.
14 00 00	1 08 54	30.140			73.0	
16 00 00	1 19 36	30.122			83.0	See extraordinary observations.
18 00 00	1 22 11	30.100			86.0	
20 00 00	1 21 31	30.082			85.0	
22 00 00	1 18 06	30.050			88.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
						AUGUST 21, 1840.
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 17 11	30.050			84.0	Maximum at 18 hours - 1 21 43
2 00 00	1 16 21	30.050			80.0	Minimum at 14 hours - 1 11 01
4 00 00	1 13 21	30.076			78.0	Mean - - - - 1 16 22
6 00 00	1 15 27	30.080			76.0	
8 00 00	1 18 11	30 090			74.0	
10 00 00	1 14 27	30.050			74.0	
Noon	1 15 35	30.048			74.0	REMARKS.
14 00 00	1 11 01	30.082			80.0	
16 00 00	1 20 20	30.106			84.0	See extraordinary observations.
18 00 00	1 21 43	30.092			87.0	
20 00 00	1 20 44	30.064			90.0	
22 00 00	1 18 56	30.038			90.0	
						AUGUST 22, 1840.
0 00 00	1 17 52	30 068			87.0	Maximum at 8 hours - 1 24 15
2 00 00	1 17 23	30.052			82.0	Minimum at 4 hours - 1 08 10
4 00 00	1 08 10	30.074			81.0	Mean - - - - 1 16 12.5
6 00 00	1 16 48	30.064			80.0	
8 00 00	1 24 15	30 050			80 0	
10 00 00	1 13 37	30 064			79.0	
Noon	1 20 56	30.064			79 0	REMARKS.
14 00 00	1 14 27	30.0-0			82 0	
16 00 00	1 19 02	30.083			86.0	See extraordinary observations.
18 00 00	1 23 11	30 050			88.0	
20 00 00	1 22 27	30 036			90 0	
22 00 00	1 20 11	30.026			90 0	
						AUGUST 23, 1840.
0 00 00	1 20 03	30 020			86.0	Maximum at 12 hours - 1 26 27
2 00 00	1 16 27	30.020			83.0	Minimum at 6 hours - 1 14 26
4 00 00	1 16 25	30 000			82.0	Mean - - - - 1 20 26.5
6 00 00	1 14 26	29.960			80.0	
8 00 00	1 22 11	29.960			79.0	
10 00 00	1 14 43	29.990			78.0	
Noon	1 26 27	29.900			76 0	REMARKS.
14 00 00	1 20 27	30.000			82.0	
16 00 00	1 19 56	30.000			86 0	At 2*h.* 45*m.*, wind changed suddenly from S. W. See extraordinary observations.
18 00 00	1 21 45	29.900			88.0	
20 00 00	1 19 44	29.900			89.0	
22 00 00	1 18 54	29.900			88.0	

MAGNETICAL AND METEOROLOGICAL

AUGUST 24, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 14 54	29.900			86.0	Maximum at 18 hours - 1 25 05
2 00 00	1 16 14	29.950			82.0	Minimum at 14 hours - 1 12 34
4 00 00	1 17 33	29.960			81.0	Mean - - - - 1 18 49.5
6 00 00	1 14 32	29.960			80.0	
8 00 00	1 19 55	29.970			78.0	
10 00 00	1 24 45	29.975			77.0	
Noon	1 19 25	29.998			75.0	REMARKS.
14 00 00	1 12 34	30.000			77.0	
16 00 00	1 17 08	30.033			81.0	See observations during a visible aurora, from 2h. 10m. to 7h. 30m.
18 00 00	1 25 05	30.030			88.0	
20 00 00	1 23 25	30.011			87.0	
22 00 00	1 23 36	30.011			86.0	

AUGUST 25, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 19 14	30.010			86.0	Maximum at 18 hours - 1 24 10
2 00 00	1 00 14	30.010			86.0	Minimum at 2 hours - 1 00 14
4 00 00	1 12 21	30.010			86.0	Mean - - - - 1 12 12
6 00 00	1 23 52	30.010			76.0	
8 00 00	1 15 14	30.000			76.0	
10 00 00	1 16 40	30.003			74.0	
Noon	1 15 35	30.032			72.0	REMARKS.
14 00 00	1 15 14	30.050			80.0	
16 00 00	1 23 47	30.100			84.0	See extraordinary observations.
18 00 00	1 24 10	30.100			82.0	
20 00 00	1 21 34	30.110			83.0	
22 00 00	1 20 34	30.120			82.0	

AUGUST 26, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 15 52	30.120			80.0	Max. at 16 and 18 hours 1 23 57
2 00 00	1 12 38	30.150			72.0	Minimum at 2 hours - 1 12 38
4 00 00	1 18 31	30.150			69.0	Mean - - - - 1 18 17.5
6 00 00	1 14 20	30.168			67.0	
8 00 00	1 20 51	30.168			63.0	
10 00 00	1 17 16	30.168			62.0	
Noon	1 12 55	30.200			61.0	REMARKS.
14 00 00	1 16 33	30.200			70.0	
16 00 00	1 23 57	30.218			76.0	See extraordinary observations.
18 00 00	1 23 57	30.204			79.0	
20 00 00	1 22 51	30.156			81.0	
22 00 00	1 19 50	30.164			80.0	

OBSERVATIONS AT WASHINGTON—1840.

AUGUST 27, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 15 55	30.154			78.0	Maximum at 10 hours - 1 26 31
2 00 00	1 06 05	30.130			74.0	Minimum at 2 hours - 1 06 05
4 00 00	1 17 35	30.142			71.0	Mean - - - - 1 16 18
6 00 00	1 21 53	30.126			70.0	
8 00 00	1 23 04	30.126			67.0	
10 00 00	1 26 31	30.132			65.0	
Noon	1 14 52	30.132			65.0	REMARKS.
14 00 00	1 13 24	30.144			73.0	
16 00 00	1 18 51	30.116			80.0	See extraordinary observations.
18 00 00	1 24 19	30.118			82.0	
20 00 00	1 22 50	30.118			82.0	
22 00 00	1 19 22	30.078			86.0	

AUGUST 28, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 17 26	30.078			82.0	Maximum at 20 hours - 1 23 06
2 00 00	1 12 36	30.078			79.0	Minimum at 14 hours - 1 10 14
4 00 00	1 19 53	30.078			74.0	Mean - - - - 1 16 40
6 00 00	1 14 57	30.078			70.0	
8 00 00	1 16 16	30.100			68.0	
10 00 00	1 18 22	30.100			68.0	
Noon	1 12 38	30.098			67.0	REMARKS.
14 00 00	1 10 14	30.104			68.0	
16 00 00	1 16 19	30.050			81.0	See extraordinary observations.
18 00 00	1 20 45	30.050			83.0	
20 00 00	1 23 06	30.050			86.0	
22 00 00	1 20 40	30.050			88.0	

AUGUST 29, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 20 19	30.075			86.0	Maximum at 18 hours - 1 25 21
2 00 00	1 17 31	30.076			84.0	Minimum at 4 hours - 1 04 17
4 00 00	1 04 17	30.106			83.0	Mean - - - - 1 14 19
6 00 00	1 16 21	30.126			82.0	
8 00 00	1 05 21	30.128			80.0	REMARKS.
10 00 00	1 09 15	30.126			78.0	
Noon	1 08 47	30.126			77.0	From 2*h*. to 3*h*. 45*m*., an auroral arch, extending from N. E. by N. to N. W. by N.
14 00 00	1 08 49	30.150			79.0	
16 00 00	1 21 39	30.140			82.0	
18 00 00	1 25 21	30.140			84.0	From 4*h*. 35*m*. to 7*h*. 45*m*., the aurora appeared only as a diffused light through the clouds.
20 00 00	1 23 45	30.150			82.0	
22 00 00	1 21 46	30.150			81.0	

MAGNETICAL AND METEOROLOGICAL

AUGUST 30, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 19 02	30.150			75.0	Maximum at 18 hours - 1 28 01
2 00 00	1 21 13	30.150			74.5	Minimum at 14 hours - 1 16 21
4 00 00	1 20 19	30.125			74.0	Mean - - - 1 22 11
6 00 00	1 21 13	30.125			74.0	
8 00 00	1 19 22	30.122			74.0	
10 00 00	1 18 26	30.122			74.0	
Noon	1 16 58	30.122			74.0	
14 00 00	1 16 21	30.122			75.0	
16 00 00	1 23 26	30.116			84.0	
18 00 00	1 28 01	30.090			87.0	
20 00 00	1 27 32	30.072			87.0	
22 00 00	1 21 28	30.028			88.0	

AUGUST 31, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 19 24	30.024			87.0	Maximum at 20 hours - 1 28 08
2 00 00	1 17 24	30.032			85.0	Minimum at 14 hours - 1 13 39
4 00 00	1 17 24	30.032			80.0	Mean - - - 1 20 53.5
6 00 00	1 21 49	30.032			78.0	
8 00 00	1 20 29	30.000			77.0	
10 00 00	1 17 59	30.000			76.0	
Noon	1 15 39	30.000			76.0	
14 00 00	1 13 39	30.026			80.0	
16 00 00	1 18 16	30.052			84.0	
18 00 00	1 25 05	30.050			88.0	
20 00 00	1 28 08	30.012			84.0	
22 00 00	1 24 35	30.012			84.0	

SEPTEMBER 1, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 32	30.034			82.0	Maximum at 20 hours - 1 25 52
2 00 00	1 20 56	30.070			78.0	Minimum at 8 hours - 1 12 06
4 00 00	1 19 58	30.084			75.0	Mean - - - 1 18 59
6 00 00	1 19 15	30.102			76.0	
8 00 00	1 12 06	30.104			73 0	
10 00 00	1 14 42	30.100			68.0	
Noon	1 15 49	30.116			63.0	
14 00 00	1 14 42	30.144			76.0	
16 00 00	1 20 14	30.150			82.0	
18 00 00	1 23 13	30.150			80.0	
20 00 00	1 25 52	30.100			81.0	
22 00 00	1 22 30	30.100			82.0	

SEPTEMBER 2, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometer. Attached.	Thermometer. Air.	Thermometer. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 07	30.100			80.0	Maximum at 20 hours - 1 24 10
2 00 00	1 19 35	30.100			72.0	Minimum at 14 hours - 1 13 07
4 00 00	1 16 34	30.084			66.0	Mean - - - 1 18 38.5
6 00 00	1 19 10	30.020			63.0	
8 00 00	1 19 04	29.996			61.0	
10 00 00	1 18 17	29.996			62.0	
Noon	1 17 19	29.960			68.0	
14 00 00	1 13 07	29.960			71.0	
16 00 00	1 17 36	29.922			79.0	
18 00 00	1 23 15	29.900			85.0	
20 00 00	1 24 10	29.850			86.0	
22 00 00	1 22 39	29.840			87.0	

SEPTEMBER 3, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometer. Attached.	Thermometer. Air.	Thermometer. Magnetic observatory.	
0 00 00	1 21 06	29.884			84.0	Maximum at 18 hours - 1 28 09
2 00 00	1 19 39	29.860			84.0	Minimum at 14 hours - 1 12 34
4 00 00	1 19 49	29.870			83.0	Mean - - - 1 20 21.5
6 00 00	1 19 06	29.900			82.0	
8 00 00	1 18 54	29.923			81.0	
10 00 00	1 18 29	29.930			78.0	
Noon	1 18 49	29.950			73.0	
14 00 00	1 12 34	30.000			72.0	
16 00 00	1 22 34	30.014			72.0	
18 00 00	1 28 09	30.050			73.0	
20 00 00	1 25 37	30.050			78.0	
22 00 00	1 20 13	30.050			78.0	

SEPTEMBER 4, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometer. Attached.	Thermometer. Air.	Thermometer. Magnetic observatory.	
0 00 00	1 19 51	30.050			72.0	Maximum at 18 hours - 1 26 59
2 00 00	1 19 48	30.050			70.0	Minimum at 12 hours - 1 14 57
4 00 00	1 19 53	30.050			64.0	Mean - - - 1 20 58
6 00 00	1 20 05	30.056			60.0	
8 00 00	1 19 43	30.060			60.0	
10 00 00	1 19 01	30.068			59.0	
Noon	1 14 57	30.100			58.0	
14 00 00	1 18 16	30.136			59.0	
16 00 00	1 22 29	30.150			64.0	
18 00 00	1 26 59	30.142			65.0	
20 00 00	1 22 59	30.116			65.0	
22 00 00	1 21 31	30.100			64.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
SEPTEMBER 5, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 14	30.086			62.0	Maximum at 18 hours - 1 27 30
2 00 00	1 20 46	30.086			62.0	Minimum at 14 hours - 1 12 49
4 00 00	1 19 06	30.086			62.0	Mean - - - 1 20 08.5
6 00 00	1 18 56	30.084			61.0	
8 00 00	1 17 56	30.080			60.0	
10 00 00	1 16 47	30.018			59.0	
Noon	1 15 39	30.000			58.0	
14 00 00	1 12 49	30.000			58.0	
16 00 00	1 21 34	30.032			62.0	
18 00 00	1 27 30	30.014			64.0	
20 00 00	1 26 02	30.000			64.0	
22 00 00	1 20 46	30.016			66.0	
SEPTEMBER 6, 1840.						
0 00 00	1 20 08	30.024			64.0	Maximum at 20 hours - 1 26 16
2 00 00	1 19 21	30.050			63.5	Minimum at 12 hours - 1 11 53
4 00 00	1 20 23	30.070			60.0	Mean - - - 1 19 04.5
6 00 00	1 18 52	30.080			58.0	
8 00 00	1 17 27	30.094			56.0	
10 00 00	1 16 39	30.104			55.0	
Noon	1 11 53	30.132			54.0	
14 00 00	1 14 35	30.164			64.0	
16 00 00	1 22 11	30.184			73 0	
18 00 00	1 24 05	30.174			74.0	
20 00 00	1 26 16	30.174			81.0	
22 00 00	1 20 11	30.176			80.0	
SEPTEMBER 7, 1840.						
0 00 00	1 20 00	30.179			72.0	Maximum at 20 hours - 1 26 53
2 00 00	1 21 02	30.209			70.0	Minimum at 12 hours - 1 12 11
4 00 00	1 20 22	30.209			64.0	Mean - - - 1 19 32
6 00 00	1 16 03	30.250			62.0	
8 00 00	1 17 29	30.250			59.0	
10 00 00	1 16 35	30.278			58.0	
Noon	1 12 11	30.286			58.0	
14 00 00	1 14 35	30.302			68.0	
16 00 00	1 19 22	30.308			78.0	
18 00 00	1 25 53	30.276			80.0	
20 00 00	1 26 53	30.250			82.0	
22 00 00	1 21 21	30.250			81.0	

SEPTEMBER 8, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 16	30.250			77.0	Maximum at 20 hours - 1 24 56
2 00 00	1 20 42	30.250			75.0	Minimum at 12 hours - 1 13 38
4 00 00	1 20 45	30.200			72.0	Mean - - - - 1 19 17
6 00 00	1 19 59	30.200			70.0	
8 00 00	1 19 22	30.150			68.0	
10 00 00	1 18 38	30.150			65.0	
Noon	1 13 38	30.150			64.0	
14 00 00	1 14 32	30.150			70.0	
16 00 00	1 20 27	30.180			74.0	
18 00 00	1 22 37	30.150			79.0	
20 00 00	1 24 56	30.150			80.0	
22 00 00	1 21 17	30.150			80.0	

SEPTEMBER 9, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 18	30.150			75.0	Maximum at 20 hours - 1 24 18
2 00 00	1 20 21	30.100			74.0	Minimum at 14 hours - 1 15 07
4 00 00	1 20 12	30.064			74 0	Mean - - - 1 19 42.5
6 00 00	1 19 21	30.050			72 0	
8 00 00	1 18 31	30.000			72.0	
10 00 00	1 18 04	30.000			71.0	
Noon	1 17 59	30.051			68.0	
14 00 00	1 15 07	30.090			72.0	
16 00 00	1 22 52	29.984			77.0	
18 00 00	1 24 13	29.970			81.0	
20 00 00	1 24 18	29.950			81.0	
22 00 00	1 21 38	29.944			82.0	

SEPTEMBER 10, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00.	1 19 43	29.922			79.0	Maximum at 18 hours - 1 26 05
2 00 00	1 18 56	29.922			78.0	Minimum at 14 hours - 1 12 16
4 00 00	1 20 53	29.950			76.0	Mean - - - 1 19 10.5
6 00 00	1 18 58	29.900			76.0	
8 00 00	1 18 03	29.868			74.0	
10 00 00	1 18 28	29.852			74.0	
Noon	1 16 20	29.852			71.0	
14 00 00	1 12 16	29.852			72.0	
16 00 00	1 20 44	29 880			81.0	
18 00 00	1 26 42	29.836			81.5	
20 00 00	1 26 05	29.818			69.0	
22 00 00	1 22 15	29.816			70.0	

MAGNETICAL AND METEOROLOGICAL.

SEPTEMBER 11, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 18	29.800			66.0	Maximum at 18 hours - 1 28 32
2 00 00	1 20 37	29.890			66.0	Minimum at 14 hours - 1 13 41
4 00 00	1 20 32	29.902			62.0	Mean - - - 1 21 06.5
6 00 00	1 19 51	29.936			60.0	
8 00 00	1 19 51	29.906			58.0	
10 00 00	1 19 15	29.910			56.0	
Noon	1 17 05	29.964			56.0	
14 00 00	1 13 41	29.986			60.0	
16 00 00	1 19 55	29.980			62.0	
18 00 00	1 28 32	29.975			64.0	
20 00 00	1 26 47	29.980			68.0	
22 00 00	1 22 19	29.970			67.0	

SEPTEMBER 12, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 20 34	29.970			65.0	Maximum at 18 hours - 1 27 09
2 00 00	1 19 55	29.976			63.0	Minimum at 14 hours - 1 16 33
4 00 00	1 20 20	30.076			59.0	Mean - - - 1 21 53.5
6 00 00	1 21 15	30.095			56.0	
8 00 00	1 19 53	30.160			54.0	
10 00 00	1 18 24	30.160			53.0	
Noon	1 17 16	30.196			53.0	
14 00 00	1 16 33	30.250			56.0	
16 00 00	1 21 04	30.250			64.0	
18 00 00	1 27 09	30.254			67.0	
20 00 00	1 25 57	30.268			69.0	
22 00 00	1 22 42	30.266			72.0	

SEPTEMBER 13, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 20 45	30.300			68.0	Maximum at 20 hours - 1 27 25
2 00 00	1 21 23	30.318			60.0	Minimum at 14 hours - 1 11 05
4 00 00	1 21 41	30.344			57.0	Mean - - - 1 19 15
6 00 00	1 19 53	30.350			54.0	
8 00 00	1 18 18	30.354			50.0	
10 00 00	1 18 24	30.360			48.0	
Noon	1 15 52	30.392			47.0	
14 00 00	1 11 05	30.406			55.0	
16 00 00	1 21 27	30.408			68.0	
18 00 00	1 26 21	30.374			71.0	
20 00 00	1 27 25	30.350			76.0	
22 00 00	1 23 24	30.336			72.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
SEPTEMBER 14, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 47	30.336			68.0	Maximum at 22 hours - 1 25 46
2 00 00	1 20 23	30.336			60.0	Minimum at 14 hours - 1 11 46
4 00 00	1 20 32	30.356			59.0	Mean - - - 1 18 46
6 00 00	1 20 18	30.352			56.0	
8 00 00	1 18 26	30.354			55.0	
10 00 00	1 17 12	30.348			52.0	
Noon	1 14 52	30.356			51.0	
14 00 00	1 11 46	30.370			60.0	
16 00 00	1 16 58	30.350			70.0	
18 00 00	1 23 48	30.302			74.0	
20 00 00	1 24 57	30.255			78.0	
22 00 00	1 25 46	30.210			80.0	
SEPTEMBER 15, 1840.						
0 00 00	1 21 20	30 220			76.0	Maximum at 20 hours - 1 26 05
2 00 00	1 20 24	30.200			78.0	Minimum at 14 hours - 1 13 27
4 00 00	1 17 24	30.200			80 0	Mean - - - 1 19 46
6 00 00	1 18 40	30.150			80.0	
8 00 00	1 20 04	30.150			78.0	
10 00 00	1 20 54	30.150			76.0	
Noon	1 13 34	30.150			56.0	REMARKS.
14 00 00	1 13 27	30.150			64.0	
16 00 00	1 18 43	30.150			78.0	Thermometer for 2, 4, 6, 8, and 10*h*. probably noted 10° too high. The copy, however, agrees with the original record.
18 00 00	1 25 50	30.100			80.0	
20 00 00	1 26 05	30.100			84.0	
22 00 00	1 21 10	30.100			88.0	
SEPTEMBER 16, 1840.						
0 00 00	1 20 27	30.100			80.0	Maximum at 6 hours - 1 27 41
2 00 00	1 19 51	30.100			73.0	Minimum at 12 hours - 1 14 21
4 00 00	1 19 51	30.100			68.0	Mean - - - 1 21 01
6 00 00	1 27 41	30.100			65.0	
8 00 00	1 18 47	30.100			60.0	
10 00 00	1 17 56	30.100			58.0	
Noon	1 14 21	30.100			56.0	
14 00 00	1 14 28	30.100			63.0	
16 00 00	1 17 28	30.136			76.0	
18 00 00	1 23 22	30.136			79.0	
20 00 00	1 26 45	30.100			82.0	
22 00 00	1 23 03	30.090			82.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
SEPTEMBER 17, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 42	30.094			80.0	Maximum at 20 hours - 1 26 12
2 00 00	1 22 17	30.110			73.0	Minimum at 14 hours - 1 14 27
4 00 00	1 16 50	30.120			70.0	Mean - - - 1 20 19.5
6 00 00	1 14 27	30.116			66.0	
8 00 00	1 14 33	30.116			64.0	
10 00 00	1 15 43	30.100			64.0	
Noon	1 14 27	30.100			64.0	
14 00 00	1 12 02	30.078			68.0	
16 00 00	1 18 29	30.076			76.0	
18 00 00	1 23 38	30.018			79.0	
20 00 00	1 26 12	29.980			80.0	
22 00 00	1 19 16	29.940			78.0	
SEPTEMBER 18, 1840.						
0 00 00	1 18 25	29.940			76.0	Maximum at 18 hours - 1 24 31
2 00 00	1 20 50	29.940			73.0	Minimum at 6 hours - 1 11 18
4 00 00	1 19 26	29.920			70.0	Mean - - - 1 17 54.5
6 00 00	1 11 18	29.910			68.0	
8 00 00	1 18 38	29.878			68.0	
10 00 00	1 17 53	29.880			64.0	
Noon	1 20 25	29.920			62.0	
14 00 00	1 17 19	29.932			60.0	
16 00 00	1 19 16	29.932			61.0	
18 00 00	1 21 31	29.930			62.0	
20 00 00	1 24 01	29.930			63.0	
22 00 00	1 21 14	29.912			62 0	
SEPTEMBER 19, 1840.						
0 00 00	1 19 21	29.900			64.0	Max. at 18 and 20 hours - 1 23 14
2 00 00	1 18 34	29.900			60.0	Minimum at 12 hours - 1 17 55
4 00 00	1 20 32	29 950			57.0	Mean - - - 1 20 34.5
6 00 00	1 21 15	29.950			55.0	
8 00 00	1 18 27	29.950			53.0	
10 00 00	1 18 15	29.932			52.0	
Noon	1 17 55	29.950			52.0	
14 00 00	1 18 17	29.950			53.0	
16 00 00	1 19 11	29.950			67.0	
18 00 00	1 23 14	29.950			70.0	
20 00 00	1 23 14	29.912			74.0	
22 00 00	1 21 44	29.900			75.0	

SEPTEMBER 20, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 44	29.900			73.0	Maximum at 20 hours - 1 27 10
2 00 00	1 20 49	29.900			62.0	Minimum at 14 hours - 1 14 16
4 00 00	1 20 05	29.900			57.0	Mean - - - - 1 20 43
6 00 00	1 18 16	29.900			51.0	
8 00 00	1 19 26	29.900			52 0	
10 00 00	1 18 21	29.850			50 0	
Noon	1 16 14	29.825			50.0	
14 00 00	1 14 16	29.820			58.0	
16 00 00	1 22 22	29.760			68.0	
18 00 00	1 25 10	29 686			71.0	
20 00 00	1 27 10	29.650			76.0	
22 00 00	1 25 01	29.626			76.0	

SEPTEMBER 21, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 19 47	29.624			73.0	Maximum at 18 hours - 1 28 50
2 00 00	1 20 16	29.700			70.0	Minimum at 10 hours - 1 10 27
4 00 00	1 19 52	29.728			68.0	Mean - - - 1 19 38.5
6 00 00	1 19 27	29.772			64.0	
8 00 00	1 18 52	29.800			60.0	
10 00 00	1 10 27	29.850			58.0	
Noon	1 15 28	29.900			56.0	
14 00 00	1 18 27	29.938			58.0	
16 00 00	1 24 18	29 986			65.0	
18 00 00	1 28 50	29 976			65.0	
20 00 00	1 21 47	29.996			67.0	
22 00 00	1 18 30	30.038			66.0	

SEPTEMBER 22, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 19 34	30.078			63.0	Maximum at 18 hours - 1 28 09
2 00 00	1 02 06	30.168			60.0	Minimum at 2 hours - 1 02 06
4 00 00	1 21 14	30.168			58.0	Mean - - - 1 15 07.5
6 00 00	1 21 14	30.246			52.0	
8 00 00	1 10 59	30.254			48.0	REMARKS.
10 00 00	1 24 03	30.322			46.0	At 1*h*., indications of an aurora. At 1*h*. 10*m*., an arch formed. Altitude, 8°. Magnetic bearing on the horizon· East extremity, N.E. by E.; centre, N. by E.; western, N.W. See extraordinary observations.
Noon	1 13 44	30.366			44.0	
14 00 00	1 19 03	30.382			52.0	
16 00 00	1 23 06	30.400			60.0	
18 00 00	1 28 09	30.374			64.0	
20 00 00	1 20 15	30.350			66.0	
22 00 00	1 05 09	30.322			68.0	

SEPTEMBER 23, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 19 52	30.324			68.0	Maximum at 18 hours - 1 24 39
2 00 00	1 18 07	30.320			58.0	Minimum at 22 hours - 1 12 22
4 00 00	1 15 13	30.320			52.0	Mean - - - 1 18 31.5
6 00 00	1 16 24	30.350			49.0	
8 00 00	1 17 44	30.300			49.0	
10 00 00	1 21 32	30.300			49.0	REMARKS.
Noon	1 14 10	30.200			52.0	See extraordinary observations.
14 00 00	1 16 29	30.300			61.0	
16 60 00	1 22 16	30.356			67.0	
18 00 00	1 24 39	30.308			73.0	
20 00 00	1 20 47	30.274			75.0	
22 00 00	1 12 22	30.250			76.0	

SEPTEMBER 24, 1840.

0 00 00	1 21 09	30.232			70.0	Maximum at 10 hours - 1 25 28
2 00 00	1 12 29	30.250			69.0	Minimum at 2 hours - 1 12 29
4 00 00	1 20 54	30.250			64.0	Mean - - - 1 18 58.5
6 00 00	1 18 59	30.273			62.0	
8 00 00	1 20 19	30.280			61.0	
10 00 00	1 25 28	30.300			60.0	REMARKS.
Noon	1 25 12	30.320			60.0	See extraordinary observations.
14 00 00	1 18 47	30.350			64.0	
16 00 00	1 24 14	30.374			72.0	
18 00 00	1 23 49	30.366			74.0	
20 00 00	1 22 58	30.330			76.0	
22 00 00	1 17 47	30.324			74.0	

SEPTEMBER 25, 1840.

0 00 00	1 14 27	30.324			69.0	Maximum at 18 hours - 1 22 51
2 00 00	1 05 25	30.330			64.0	Minimum at 2 hours - 1 05 25
4 00 00	1 20 22	30.350			62.0	Mean - - - 1 14 08
6 00 00	1 19 27	30.350			58.0	
8 00 00	1 18 32	30.346			58.0	
10 00 00	1 16 43	30.364			56.0	REMARKS.
Noon	1 18 27	30.364			54.0	See extraordinary observations.
14 00 00	1 21 28	30.372			56.0	
16 00 00	1 21 08	30.381			64.0	
18 00 00	1 22 51	30.360			72.0	
20 00 00	1 20 34	30.316			76.0	
22 00 00	1 18 20	30.294			73.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
SEPTEMBER 26, 1840.						
h. m. s.	° ' "	*Inches.*	°	°	°	° ' "
0 00 00	1 18 09	30.284			69.0	Maximum at 18 hours - 1 25 27
2 00 00	1 17 10	30.300			62.0	Minimum at 14 hours - 1 14 26
4 00 00	1 17 25	30.300			57.0	Mean - - - 1 19 56.5
6 00 00	1 20 24	30.288			57.0	
8 00 00	1 18 33	30.278			58.0	
10 00 00	1 19 48	30.264			58.0	
Noon	1 16 41	30.288			58.0	
14 00 00	1 14 26	30.298			61.0	
16 00 00	1 20 24	30.282			71.0	
18 00 00	1 25 27	30.224			74.0	
20 00 00	1 22 14	30.200			74.0	
22 00 00	1 19 50	30.200			77.0	
SEPTEMBER 27, 1840.						
0 00 00	1 19 24	30.200			72.0	Maximum at 18 hours - 1 23 26
2 00 00	1 20 30	30.164			70.0	Minimum at 14 hours - 1 14 57
4 00 00	1 19 29	30.140			69.0	Mean - - - 1 19 11.5
6 00 00	1 18 22	30.140			62.0	
8 00 00	1 17 31	30.130			62.0	
10 00 00	1 17 54	30.106			61.0	
Noon	1 16 44	30.050			60.0	
14 00 00	1 14 57	30.030			64.0	
16 00 00	1 17 48	30.012			71.0	
18 00 00	1 23 26	30.000			69.0	
20 00 00	1 22 04	29.982			69.0	
22 00 00	1 19 04	29.982			68.0	
SEPTEMBER 28, 1840.						
0 00 00	1 17 56	30.040			68.0	Maximum at 18 hours - 1 24 02
2 00 00	1 17 44	30.050			66.0	Minimum at 12 hours - 1 14 28
4 00 00	1 17 58	30.100			58.0	Mean - - - 1 19 15
6 00 00	1 20 07	30.110			55.0	
8 00 00	1 15 10	30.123			52.0	
10 00 00	1 15 04	30.133			50.0	
Noon	1 14 28	30.156			50.0	
14 00 00	1 14 39	30.210			57.0	
16 00 00	1 19 28	30.232			67.0	
18 00 00	1 24 02	30.210			68.0	
20 00 00	1 23 39	30.158			72.0	
22 00 00	1 21 22	30.168			73.0	

SEPTEMBER 29, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 19 07	30.186			64.0	Maximum at 20 hours - 1 23 29
2 00 00	1 18 28	30.218			61.0	Minimum at 12 hours - 1 14 38
4 00 00	1 18 23	30.250			56.0	Mean - - - 1 19 08.5
6 00 00	1 19 30	30.254			54.0	
8 00 00	1 16 48	30.236			48.0	
10 00 00	1 15 43	30.236			47.0	
Noon	1 14 38	30.256			44.0	
14 00 00	1 18 22	30.272			49.0	
16 00 00	1 15 12	30.274			65.0	
18 00 00	1 20 03	30.236			70.0	
20 00 00	1 23 29	30.206			72.0	
22 00 00	1 21 22	30.200			72.0	

SEPTEMBER 30, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 20 09	30.188			68.0	Maximum at 20 hours - 1 24 17
2 00 00	1 13 24	30.184			62.0	Minimum at 14 hours - 1 12 35
4 00 00	1 12 55	30.170			60.0	Mean - - - 1 18 26
6 00 00	1 15 09	30.166			59.0	
8 00 00	1 16 17	30.158			58.0	
10 00 00	1 20 30	30.160			57.0	
Noon	1 15 04	30.126			58.0	
14 00 00	1 12 35	30.138			60.0	
16 00 00	1 15 58	30.090			67.0	
18 00 00	1 22 45	30.054			74.0	
20 00 00	1 24 17	30.030			69.5	
22 00 00	1 22 21	30.050			69.0	

OCTOBER 1, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 42	30.050			69.0	Maximum at hours -
2 00 00	1 21 04	30.050			65.0	Minimum at hours -
4 00 00	1 17 23	30.050			62.0	Mean - - -
6 00 00	1 17 30	30.060			60.0	
8 00 00	1 15 35	30.060			59.0	
10 00 00	1 16 36	30.060			57.0	
Noon						
14 00 00						
16 00 00						
18 00 00						
20 00 00						
22 00 00						

REMARKS.

At noon, found the suspension broken; replaced it, and suspended the torsion bar.

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
OCTOBER 2, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00						Maximum at hours -
2 00 00		30.148			74.5	Minimum at hours -
4 00 00		30.154			78.5	Mean - - -
6 00 00		30.150			70.5	
8 00 00		30.150			68.0	
10 00 00		30.150			64.0	
Noon		30.180			67.0	REMARKS.
14 00 00						
16 00 00						Adjusting the instrument.
18 00 00		30.144			78.0	
20 00 00		30.104			81.0	
22 00 00		30.098			81.0	
OCTOBER 3, 1840.						
0 00 00		30.086			78.0	Maximum at hours -
2 00 00		30.062			76.0	Minimum at hours -
4 00 00		30.080			75.5	Mean - - -
6 00 00		30 000			75.5	
8 00 00		29.974			72 0	REMARKS.
10 00 00		29 974			71.0	Suspended the needle in the reversed position, (face down,) and found the deviation of the magnetic axis from the line joining the crosses of the wires, 4′ 17″, one-half of which amount is *additive* to the observations.
Noon		29.962			71.0	
14 00 00		29.980			70.0	
16 00 00		30.062			62.0	
18 00 00		30.092			60.0	
20 00 00		30.102			62.0	
22 00 00		30.136			64.0	
OCTOBER 4, 1840.						
0 00 00		30.158			62.0	Maximum at hours -
2 00 00		30.216			56.0	Minimum at hours -
4 00 00		30.260			52.0	Mean - - -
6 00 00		30.268			49.0	
8 00 00		30.258			45.0	
10 00 00		30.274			43.5	
Noon		30.294			41 5	REMARKS.
14 00 00		30.316			49.0	
16 00 00		30.320			62.0	Completing adjustments.
18 00 00		30.282			68.0	
20 00 00						
22 00 00						

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
		OCTOBER 5, 1840.				
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00						Maximum at 18 hours - 1 24 40
2 00 00						Minimum at 14 hours - 1 18 30
4 00 00	1 21 18	30.224			57.0	Mean - - - - 1 21 35
6 00 00	1 22 19	30.230			51.0	
8 00 00	1 21 24	30.230			48.0	
10 00 00	1 21 24	30.214			47.0	
Noon	1 22 18	30.214			44.0	
14 00 00	1 18 30	30.222			51.0	
16 00 00	1 19 46	30.216			66.5	
18 00 00	1 24 40	30.192			71.0	
20 00 00	1 23 31	30.126			75.0	
22 00 00	1 24 11	30.152			73.0	
		OCTOBER 6, 1840.				
0 00 00	1 23 23	30.122			68.0	Maximum at 16 hours - 1 24 48
2 00 00	1 21 38	30.146			62.0	Minimum at 12 hours - 1 17 37
4 00 00	1 19 49	30.134			57.5	Mean - - - - 1 21 12.5
6 00 00	1 17 16	30.136			55.0	
8 00 00	1 17 16	30.116			52.0	
10 00 00	1 18 23	30.120			49.0	
Noon	1 17 37	30.104			48.0	
14 00 00	1 19 14	30.108			57.0	
16 00 00	1 24 48	30.126			71.0	
18 00 00	1 22 01	30.106			78.0	
20 00 00	1 22 01	30.074			82.0	
22 00 00	1 20 57	30.116			81.0	
		OCTOBER 7, 1840.				
0 00 00	1 20 06	30.100			72.0	Maximum at 18 hours - 1 21 29
2 00 00	1 20 39	30.100			66.0	Minimum at 14 hours - 1 16 39
4 00 00	1 18 30	30.116			62.0	Mean - - - - 1 19 04
6 00 00	1 17 30	30.128			58.0	
8 00 00	1 18 33	30.126			54.0	
10 00 00	1 17 41	30.132			52.0	
Noon	1 19 36	30.156			50.0	
14 00 00	1 16 39	30.204			59.0	
16 00 00	1 17 41	30.212			72.0	
18 00 00	1 21 29	30.214			82.0	
20 00 00	1 20 57	30.178			82.0	
22 00 00	1 20 42	30.200			80.0	

OCTOBER 8, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 33	30.180			74.0	Maximum at 18 hours - 1 23 04
2 00 00	1 20 08	30.200			64.0	Minimum at 14 hours - 1 16 34
4 00 00	1 19 28	30.200			60.0	Mean - - - - 1 19 49
6 00 00	1 19 01	30.222			58.0	
8 00 00	1 18 37	30.240			55.0	
10 00 00	1 18 30	30.240			51.0	
Noon	1 18 14	30.250			56.0	
14 00 00	1 16 34	30.300			58.0	
16 00 00	1 20 55	30.300			64.0	
18 00 00	1 23 04	30.300			72.0	
20 00 00	1 22 16	30.260			80.0	
22 00 00	1 22 31	30.250			82.0	

OCTOBER 9, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 19 58	30.250			70.0	Maximum at 18 hours - 1 21 55
2 00 00	1 19 51	30.264			63.5	Minimum at 14 hours - 1 15 24
4 00 00	1 19 51	30.266			58.5	Mean - - - - 1 18 39.5
6 00 00	1 19 42	30.266			55.0	
8 00 00	1 18 27	30.258			55.0	
10 00 00	1 16 28	30.258			56.0	
Noon	1 16 28	30.250			58.0	
14 00 00	1 15 24	30.290			60.0	
16 00 00	1 18 03	30.236			69.0	
18 00 00	1 21 55	30.288			79.0	
20 00 00	1 20 28	30.214			79.0	
22 00 00	1 18 46	30.244			82.0	

OCTOBER 10, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 18 34	30.244			71.0	Maximum at 22 hours - 1 24 30
2 00 00	1 17 54	30.240			64 0	Minimum at 14 hours - 1 13 47
4 00 00	1 18 01	30 242			63.0	Mean - - - - 1 19 08.5
6 00 00	1 17 13	30 248			59.0	
8 00 00	1 17 26	30.246			59.0	
10 00 00	1 14 42	30.244			60.0	
Noon	1 13 54	30 204			61.0	
14 00 09	1 13 47	30.220			64.0	
16 00 00	1 18 29	30 300			66.0	
18 00 00	1 20 36	30.256			66.0	
20 00 00	1 20 09	30.224			64.0	
22 00 00	1 24 30	30.208			64.0	

MAGNETICAL AND METEOROLOGICAL

OCTOBER 11, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 21	30.182			62.0	Maximum at 0 hours - 1 21 21
2 00 00	1 20 50	30.182			62.0	Minimum at 14 hours - 1 11 02
4 00 00	1 17 04	30.168			61.0	Mean - - - 1 16 11.5
6 00 00	1 17 13	30.120			62.0	
8 00 00	1 17 31	30.060			62.0	
10 00 00	1 16 21	30.004			62.0	
Noon	1 14 53	29.964			62.0	
14 00 00	1 11 02	29.946			63.0	
16 00 00	1 14 21	29.890			69.0	
18 00 00	1 21 00	29.830			74.0	
20 00 00	1 20 34	29.800			80.0	
22 00 00	1 19 33	29.770			80.0	

OCTOBER 12, 1840.

0 00 00	1 18 54	29.750			76.0	Maximum at 18 hours - 1 23 31
2 00 00	1 19 02	29.750			72.0	Minimum at 14 hours - 1 14 45
4 00 00	1 16 50	29.750			70.0	Mean - - - 1 19 08
6 00 00	1 17 31	29.720			66.0	
8 00 00	1 19 23	29.710			64.0	
10 00 00	1 18 23	29.710			62.0	
Noon	1 16 29	29.700			62.0	
14 00 00	1 14 45	29.712			70.0	
16 00 00	1 18 57	29.750			74.0	
18 00 00	1 23 31	29.752			78.0	
20 00 00	1 22 18	29.800			82.0	
22 00 00	1 21 22	29.850			74.0	

OCTOBER 13, 1840.

0 00 00	1 19 59	29.850			62.0	Maximum at 18 hours - 1 21 59
2 00 00	1 19 10	29.900			57.0	Minimum at 14 hours - 1 11 48
4 00 00	1 17 15	29.950			53.0	Mean - - - 1 16 53.5
6 00 00	1 17 15	29.972			50.0	
8 00 00	1 16 58	30.000			46.0	
10 00 00	1 15 49	30.034			44.0	
Noon	1 13 37	30.050			42.0	
14 00 00	1 11 48	30.050			54.0	
16 00 00	1 18 11	30.050			63.0	
18 00 00	1 21 59	30.050			68.0	
20 00 00	1 21 17	30.024			68.0	
22 00 00	1 19 14	30.022			65.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
OCTOBER 14, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 19 32	30.000			62.0	Maximum at 20 hours - 1 21 37
2 00 00	1 20 17	29.998			60.0	Minimum at 14 hours - 1 13 17
4 00 00	1 18 22	30.000			52.0	Mean - - - - 1 17 27
6 00 00	1 17 56	30.000			44.0	
8 00 00	1 15 46	29.992			42.0	
10 00 00	1 15 47	29.984			39.0	
Noon	1 15 56	28.992			38.0	
14 00 00	1 13 17	30.000			44.0	
16 00 00	1 15 21	30.028			63.0	
18 00 00	1 19 45	30.016			78.0	
20 00 00	1 21 37	29.970			84.0	
22 00 00	1 20 46	29.950			76.0	
OCTOBER 15, 1840.						
0 00 00	1 17 14	29.960			78.0	Maximum at 20 hours - 1 22 32
2 00 00	1 18 56	29.970			62.0	Minimum at 14 hours - 1 12 31
4 00 00	1 16 49	29.990			58.0	Mean - - - - 1 17 31.5
6 00 00	1 17 34	29.990			55.0	
8 00 00	1 17 34	29.998			53.0	
10 00 00	1 16 12	30.000			52.0	
Noon	1 15 50	30.050			55.0	
14 00 00	1 12 31	30.054			56.0	
16 00 00	1 14 47	30.012			60.0	
18 00 00	1 19 33	29.993			68.0	
20 00 00	1 22 32	30.053			72.0	
22 00 00	1 20 03	30.068			64.0	
OCTOBER 16, 1840.						
0 00 00	1 19 17	30.124			60.0	Maximum at 20 hours - 1 23 35
2 00 00	1 18 44	30.144			54.0	Minimum at 12 hours - 1 17 21
4 00 00	1 18 10	30.198			50.0	Mean - - - - 1 20 28
6 00 00	1 18 34	30.213			47.0	
8 00 00	1 17 34	30.236			44.0	
10 00 00	1 17 55	30.254			42.0	
Noon	1 17 21	30.288			38.0	
14 00 00	1 18 40	30.288				
16 00 00	1 18 34	30.302			54.0	
18 00 00	1 21 39	30.284			56.0	
20 00 00	1 23 35	30.272			64.0	
22 00 00	1 21 40	30.252			62.0	

OCTOBER 17, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.		
h. m. s.	° ′ ″	*Inches.*	°	°	°		° ′ ″
0 00 00	1 21 33	30.272			58.0	Maximum at 22 hours -	1 23 31
2 00 00	1 16 13	30.283			48 0	Minimum at 14 hours -	1 13 32
4 00 00	1 17 04	30.322			43.0	Mean - - -	1 18 31.5
6 00 00	1 17 01	30.322			40.0		
8 00 00	1 16 06	30.312			40.0		
10 00 00	1 15 48	30 332			41.0		
Noon	1 17 53	30.334			42.0		
14 00 00	1 13 32	30.332			46.0		
16 00 00	1 15 28	30.352			52.0		
18 00 00	1 21 49	30.350			57.0		
20 00 00	1 23 07	30.334			55.0		
22 00 00	1 23 31	30.334			54.0		

OCTOBER 18, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.		
0 00 00	1 18 50	30.326			52.0	Maximum at 10 hours -	1 27 43
2 00 00	1 19 16	30.326			52 0	Minimum at 4 hours -	1 13 06
4 00 00	1 13 06	30.326			52.0	Mean - - -	1 20 24.5
6 00 00	1 14 29	30.326			52.0		
8 00 00	1 18 57	30.326			53.0		
10 00 00	1 27 43	30.326			54.0		
Noon	1 21 30	30.326			55.0		
14 00 00	1 21 30	30.340			58 0		
16 00 00	1 19 28	30.342			62.0		
18 00 00	1 22 51	30.300			62.0		
20 00 00	1 24 02	30.280			65.0		
22 00 00	1 22 58	30.270			64.0		

OCTOBER 19, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.		
0 00 00	1 20 16	30.268			62.5	Maximum at 18 hours -	1 25 54
2 00 00	1 18 27	30.268			62.0	Minimum at 4 hours -	1 12 27
4 00 00	1 12 27	30.258			62.0	Mean - - -	1 19 10.5
6 00 00	1 18 45	30.250			62.0		
8 00 00	1 20 48	30.200			60.0		
10 00 00	1 19 07	30.200			61.0		
Noon	1 23 24	30.196			60.5		
14 00 00	1 17 53	30.204			62.5		
16 00 00	1 22 09	30.180			72.0		
18 00 00	1 25 54	30.144			77.0		
20 00 00	1 23 15	30.110			79.0		
22 00 00	1 21 13	30.090			76.0		

OCTOBER 20, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 13 14	30.090			73 0	Maximum at 14 hours - 1 24 17
2 00 00	1 09 55	30.090			72.0	Minimum at 2 hours - 1 09 55
4 00 00	1 12 45	30.100			70.0	Mean - - - 1 17 06
6 00 00	1 17 51	30.100			68 0	
8 00 00	1 23 13	30.080			67.0	
10 00 00	1 18 51	30.070			67.0	
Noon	1 16 45	30 058			67.0	
14 00 00	1 24 17	30.068			68.0	
16 00 00	1 18 41	30.050			68.0	
18 00 00	1 18 53	30 050			69.0	
20 00 00	1 18 43	30.050			70.0	
22 00 00	1 19 48	30.028			70.0	

OCTOBER 21, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 10 56	30.028			70.0	Maximum at 18 hours - 1 26 13
2 00 00	1 14 54	30.048			68.0	Minimum at 4 hours - 1 09 30
4 00 00	1 09 30	30.046			66 0	Mean - - - 1 17 51.5
6 00 00	1 14 45	30.010			66.0	
8 00 00	1 18 48	29.992			66.0	
10 00 00	1 18 23	29.968			64.0	REMARKS.
Noon	1 22 23	29.950			64.0	
14 00 00	1 13 14	29.968			64.0	See extraordinary observations.
16 00 00	1 17 39	29.913			65.0	
18 00 00	1 26 13	29.850			68.0	
20 00 00	1 23 36	29.791			68.0	
22 00 00	1 24 04	29.819			67.0	

OCTOBER 22, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 44	29.819			70.0	Maximum at 20 hours - 1 23 21
2 00 00	1 18 11	29.810			72.0	Minimum at 14 hours - 1 15 36
4 00 00	1 14 43	29.800			70.0	Mean - - - 1 19 28.5
6 00 00	1 17 01	29.850			68.0	
8 00 00	1 16 50	29.853			66.0	
10 00 00	1 18 17	29.861			58.0	
Noon	1 17 44	29.920			58.0	
14 00 00	1 15 36	29.970			57.0	
16 00 00	1 20 59	30.000			58.0	
18 00 00	1 23 02	30.002			63.0	
20 00 00	1 23 21	30.014			67.0	
22 00 00	1 22 40	30.100			69.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
OCTOBER 23, 1840.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 19 24	30.100			60.0	Maximum at 20 hours - 1 25 06
2 00 00	1 16 33	30.091			52.0	Minimum at 4 hours - 1 13 42
4 00 00	1 13 42	30.086			50.0	Mean - - - 1 19 24
6 00 00	1 22 09	30.072			47.0	
8 00 00	1 22 14	30.053			46.0	
10 00 00	1 16 19	30.058			45.0	
Noon	1 17 15	30.056			45.0	
14 00 00	1 16 35	30.050			52.0	
16 00 00	1 18 51	30.012			56.0	
18 00 00	1 22 26	29.950			64.0	
20 00 00	1 25 06	29.910			68.0	
22 00 00	1 21 16	29.912			68.0	
OCTOBER 24, 1840.						
0 00 00	1 17 42	29.900			64.0	Maximum at 20 hours - 1 24 35
2 00 00	1 17 42	29.900			60.0	Minimum at 14 hours - 1 16 04
4 00 00	1 18 33	29.910			59.0	Mean - - - 1 20 19.5
6 00 00	1 18 44	29.930			56.0	
8 00 00	1 19 51	30.000			54.0	
10 00 00	1 17 15	30.040			50.3	
Noon	1 21 22	30.112			47.0	
14 00 00	1 16 04	30.150			49.0	
16 00 00	1 17 13	30.220			50.0	
18 00 00	1 21 09	30.200			53.0	
20 00 00	1 24 35	30.180			58.0	
22 00 00	1 21 43	30.172			58.0	
OCTOBER 25, 1840.						
0 00 00	1 20 36	30.172			52.0	Maximum at 20 hours - 1 27 26
2 00 00	1 20 01	30.151			46.0	Minimum at 12 hours - 1 18 40
4 00 00	1 19 56	30.142			42.0	Mean - - - 1 23 03
6 00 00	1 19 11	30.120			40.0	
8 00 00	1 20 42	30.102			36.0	
10 00 00	1 19 33	30.072			36.0	
Noon	1 18 40	30.068			39.0	
14 00 00	1 19 00	30.074			39.0	
16 00 00	1 21 14	30.010			47.0	
18 00 00	1 24 50	29.968			45.0	
20 00 00	1 27 26	29.950			48.0	
22 00 00	1 23 34	29.968			46.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
OCTOBER 26, 1840.						
h. m. s.	° ′ ′	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 09	29.992			40.0	Maximum at 20 hours - 1 23 56
2 00 00	1 21 22	30.020			36.0	Minimum at 14 hours - 1 18 21
4 00 00	1 20 38	30.000			36.0	Mean - - - - 1 21 08.5
6 00 00	1 20 51	30.000			35.0	
8 00 00	1 19 54	29.976			34.0	
10 00 00	1 19 54	29.976			34.0	
Noon	1 20 00	30.000			32.0	
14 00 00	1 18 21	30.032			34.0	
16 00 00	1 20 43	30.036			39.0	
18 00 00	1 23 04	30.040			44.0	
20 00 00	1 23 56	30.060			45.0	
22 00 00	1 21 18	30.100			46.0	
OCTOBER 27, 1840.						
0 00 00	1 21 56	30.110			40.0	Maximum at 18 hours - 1 23 38
2 00 00	1 21 50	30.150			38.0	Minimum at 14 hours - 1 17 21
4 00 00	1 21 50	30.250			38.0	Mean - - - - 1 20 29.5
6 00 00	1 21 38	30.252			34.0	
8 00 00	1 21 50	30.260			33.0	
10 00 00	1 19 44	30.300			34.0	
Noon	1 20 48	30.350			28.0	
14 00 00	1 17 21	30.380			34.0	
16 00 00	1 21 15	30.390			40.0	
18 00 00	1 23 38	30.350			47.0	
20 00 00	1 22 58	30.282			49.0	
22 00 00	1 21 45	30.282			47.0	
OCTOBER 28, 1840.						
0 00 00	1 20 49	30.282			44.0	Maximum at 16 hours - 1 24 08
2 00 00	1 20 55	30.282			40.0	Minimum at 4 hours - 1 07 58
4 00 00	1 07 58	30.240			38.0	Mean - - - - 1 16 00.5
6 00 00	1 12 23	30.230			44.0	
8 00 00	1 19 46	30.225			39.0	
10 00 00	1 18 04	30.217			39.0	REMARKS.
Noon	1 17 08	30.204			40.0	
14 00 00	1 22 25	30.204			44.0	From 4 hours till daylight, (noon, Göttingen,) a diffused light in the northern horizon. See extraordinary observations.
16 00 00	1 24 08	30.216			49.0	
18 00 00	1 23 17	30.164			57.0	
20 00 00	1 21 28	30.142			59.0	
22 00 00	1 20 11	30.124			59.0	

OCTOBER 29, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 19 18	30.124			57.0	Maximum at 20 hours - 1 25 51
2 00 00	1 18 01	30.126			56.0	Minimum at 14 hours - 1 16 30
4 00 00	1 20 23	30.132			55.0	Mean - - - 1 21 10.5
6 00 00	1 21 06	30.140			54.0	
8 00 00	1 19 10	30.070			54.0	
10 00 00	1 24 48	30.008			57.0	
Noon	1 16 33	29.980			58.0	
14 00 00	1 16 30	29.910			58.0	
16 00 00	1 19 55	29.792			60.0	
18 00 00	1 25 24	29.684			62.0	
20 00 00	1 25 51	29.566			62.5	
22 00 00	1 22 10	29.544			64.0	

OCTOBER 30, 1840.

0 00 00	1 20 28	29.550			65.0	Maximum at 8 hours - 1 28 59
2 00 00	1 20 14	29.550			62.0	Minimum at 14 hours - 1 17 40
4 00 00	1 20 14	29.554			64.0	Mean - - - 1 23 19.5
6 00 00	1 18 32	29.600			60.0	
8 00 00	1 28 59	29.614			56.0	
10 00 00	1 18 08	29.614			57.0	REMARKS.
Noon	1 19 02	29.650			57 0	
14 00 00	1 17 40	29.700			56.0	See extraordinary observations.
16 00 00	1 18 42	29.700			58.0	
18 00 00	1 23 46	29.710			59.0	
20 00 00	1 24 45	29.700			58.0	
22 00 00	1 20 59	29.700			58.0	

OCTOBER 31, 1840.

0 00 00	1 20 59	29.750			56.0	Maximum at 22 hours - 1 24 49
2 00 00	1 20 58	29.800			52 0	Minimum at 16 hours - 1 17 28
4 00 00	1 19 42	29.861			52.0	Mean - - - 1 21 08.5
6 00 00	1 19 47	29.850			50 0	
8 00 00	1 19 38	29.870			46.0	
10 00 00	1 18 44	29.878			45.0	
Noon	1 17 53	29.900			42.0	
14 00 00	1 17 54	29.950			43.0	
16 00 00	1 17 28	29.920			48.0	
18 00 00	1 22 20	29.900			53.0	
20 00 00	1 24 29	29 900			55 0	
22 00 00	1 24 49	29.950			54 0	

OBSERVATIONS AT WASHINGTON—1840.

NOVEMBER 1, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 12	29.980			50.0	Maximum at 20 hours - 1 23 56
2 00 00	1 20 50	30.009			46.0	Minimum at 14 hours - 1 16 45
4 00 00	1 20 06	30.044			43.0	Mean - - - 1 20 20.5
6 00 00	1 20 06	30.072			41.0	
8 00 00	1 20 29	30.080			39.0	
10 00 00	1 18 37	30.130			38.0	
Noon	1 19 29	30.162			38.0	
14 00 00	1 16 45	30.224			44.0	
16 00 00	1 18 35	30.268			48.0	
18 00 00	1 22 41	30.266			56.0	
20 00 00	1 23 56	30.250			62.0	
22 00 00	1 23 08	30.250			63.0	

NOVEMBER 2, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 23 23	30.258			55.0	Maximum at 18 hours - 1 24 36
2 00 00	1 21 13	30.272			50.0	Minimum at 16 hours - 1 18 01
4 00 00	1 19 46	30.292			46.0	Mean - - - 1 21 18.5
6 00 00	1 18 40	30.310			42.0	
8 00 00	1 19 37	30.310			39.0	
10 00 00	1 18 47	30.340			37.0	
Noon	1 19 55	30.340			37.0	
14 00 00	1 18 42	30.376			44.0	
16 00 00	1 18 01	30.400			47.0	
18 00 00	1 24 36	30.382			54.0	
20 00 00	1 24 12	30.358			56.0	
22 00 00	1 21 51	30.394			58.0	

NOVEMBER 3, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 20 59	30.364			53.0	Max. at 20 and 22 hours - 1 23 09
2 00 00	1 19 28	30.356			51.0	Minimum at 16 hours - 1 14 45
4 00 00	1 20 31	30.338			45.0	Mean - - - 1 18 57
6 00 00	1 20 53	30.316			44.0	
8 00 00	1 20 32	30.304			42.0	
10 00 00	1 19 46	30.286			41.0	
Noon	1 18 57	30.268			39.0	
14 00 00	1 17 14	30.268			47.0	
16 00 00	1 14 45	30.250			49.0	
18 00 00	1 21 15	30.200			56.0	
20 00 00	1 23 09	30.154			64.0	
22 00 00	1 23 09	30.162			64.0	

NOVEMBER 4, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 40	30.150			59.0	Maximum at 10 hours - 1 24 08
2 00 00	1 21 40	30.139			52.0	Minimum at 14 hours - 1 18 37
4 00 00	1 22 36	30.127			46.0	Mean - - - 1 21 22.5
6 00 00	1 22 29	30.111			44.0	
8 00 00	1 23 34	30.111			41.0	
10 00 00	1 24 08	30.107			41.0	
Noon	1 20 45	30.100			41.0	
14 00 00	1 18 37	30.119			48.0	
16 00 00	1 20 34	30.120			55.0	
18 00 00	1 21 27	30.080			63.0	
20 00 00	1 23 00	30.070			69.0	
22 00 00	1 22 20	30.070			68 0	

NOVEMBER 5, 1840.

0 00 00	1 21 45	30.090			61 0	Maximum at 18 hours - 1 23 19
2 00 00	1 21 02	30.090			55.0	Min. at 12 and 14 hours - 1 19 02
4 00 00	1 20 09	30.084			52.0	Mean - - - 1 21 10.5
6 00 00	1 21 03	30.100			48.0	
8 00 00	1 21 41	30.098			46 0	
10 00 00	1 19 46	30.098			44.0	
Noon	1 19 02	30.100			41.0	
14 00 00	1 19 02	30.100			48.0	
16 00 00	1 20 18	30.098			52.0	
18 00 00	1 23 19	30.050			54.0	
20 00 00	1 22 00	30.012			60.0	
22 00 00	1 20 45	30.000			62.0	

NOVEMBER 6, 1840.

0 00 00	1 18 56	30.000			56.0	Maximum at 22 hours - 1 24 49
2 00 00	1 19 23	29.980			52.0	Minimum at 14 hours - 1 16 26
4 00 00	1 19 23	29.988			50.0	Mean - - - 1 20 37.5
6 00 00	1 18 32	30.000			49.5	
8 00 00	1 17 54	29.982			48.0	
10 00 00	1 16 43	30.000			48.5	
Noon	1 16 56	30.000			44.0	
14 00 00	1 16 26	30.000			53.0	
16 00 00	1 19 13	30.050			53.0	
18 00 00	1 20 58	30.010			62.0	
20 00 00	1 22 08	29.980			64.0	
22 00 00	1 24 49	30.000			65.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
NOVEMBER 7, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 28	30.040			58.0	Maximum at 18 hours - 1 28 36
2 00 00	1 20 02	30.030			52.0	Minimum at 14 hours - 1 15 33
4 00 00	1 20 20	30.038			48.0	Mean - - - 1 22 04.5
6 00 00	1 20 20	30.038			46.0	
8 00 00	1 19 33	30.050			42.0	
10 00 00	1 18 36	30.054			42.0	
Noon	1 18 34	30.054			43.0	
14 00 00	1 15 33	30.050			50.0	
16 00 00	1 19 25	30.074			52.0	
18 00 00	1 28 36	30.050			59.0	
20 00 00	1 23 59	30.022			62.0	
22 00 00	1 24 18	30.032			57.0	
NOVEMBER 8, 1840.						
0 00 00	1 21 36	30.068			54.0	Maximum at 16 hours - 1 24 46
2 00 00	1 19 59	30.068			56.0	Minimum at 14 hours - 1 18 21
4 00 00	1 19 10	30.032			52.0	Mean - - - 1 21 33.5
6 00 00	1 19 55	30.004			51.5	
8 00 00	1 20 54	29.954			50.0	
10 00 00	1 20 17	29.950			50.0	
Noon	1 19 31	29.932			49.0	
14 00 00	1 18 21	29.950			55.0	
16 00 00	1 24 46	29.870			53.0	
18 00 00	1 23 48	29.950			52.0	
20 00 00	1 23 48	29.800			52.0	
22 00 00	1 23 05	29.800			53.0	
NOVEMBER 9, 1840.						
0 00 00	1 23 05	29.790			53.0	Maximum at 18 hours - 1 25 07
2 00 00	1 21 34	29.760			52.0	Min. at 8, 10, & 12 h. - 1 16 37
4 00 00	1 21 20	29.720			51.0	Mean - - - 1 20 52
6 00 00	1 20 44	29.700			51.0	
8 00 00	1 16 37	29.710			49.0	
10 00 00	1 16 37	29.723			48.0	
Noon	1 16 37	29.750			50.0	
14 00 00	1 19 12	29.800			48.0	
16 00 00	1 20 39	29.820			49.5	
18 00 00	1 25 07	29.828			57.0	
20 00 00	1 24 21	29.832			54.0	
22 00 00	1 22 20	29.862			50.0	

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
NOVEMBER 10, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 16	29.916			48.0	Maximum at 20 hours - 1 23 43
2 00 00	1 20 34	29.912			47.0	Minimum at 14 hours - 1 15 38
4 00 00	1 21 26	29.912			46.0	Mean - - - 1 19 40.5
6 00 00	1 20 58	29.912			46.0	
8 00 00	1 19 49	29.934			46.0	
10 00 00	1 19 51	29.958			45.0	
Noon.						
14 00 00	1 15 38	29.990			52.0	
16 00 00	1 16 42	29.980			51.0	
18 00 00	1 22 59	29.980			57.0	
20 00 00	1 23 43	29.982			60.0	
22 00 00	1 21 05	30.050			60.5	
NOVEMBER 11, 1840.						
0 00 00	1 21 24	30.050			56.0	Maximum at 20 hours - 1 22 04
2 00 00	1 20 36	30.050			51.0	Minimum at 14 hours - 1 15 53
4 00 00	1 20 45	30.050			48.0	Mean - - - 1 18 58.5
6 00 00	1 18 44	30.050			44.0	
8 00 00	1 19 53	30.050			42.0	
10 00 00	1 18 15	30.050			40.0	
Noon	1 18 01	30.050			41.0	
14 00 00	1 15 53	30.084			45.0	
16 00 00	1 17 38	30.132			46.0	
18 00 00	1 21 43	30.100			56.0	
20 00 00	1 22 04	30.090			60.0	
22 00 00	1 21 08	30.074			59.0	
NOVEMBER 12, 1840.						
0 00 00	1 18 38	30.030			52.0	Max. at 18 and 20 hours - 1 22 44
2 00 00	1 20 28	30.050			47.0	Minimum at 14 hours - 1 18 18
4 00 00	1 19 28	30.072			44.0	Mean - - - 1 20 31
6 00 00	1 20 05	30.020			43.0	
8 00 00	1 19 48	30.010			45.0	
10 00 00	1 19 08	30.000			46.0	
Noon	1 18 35	30.000			40.0	
14 00 00	1 18 18	29.980			46.0	
16 00 00	1 18 45	29.995			46.0	
18 00 00	1 22 44	29.938			56.0	
20 00 00	1 22 44	29.888			62.0	
22 00 00	1 21 14	29.934			62.0	

OBSERVATIONS AT WASHINGTON—1840.

NOVEMBER 13, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 48	29.904			56.0	Maximum at 22 hours - 1 23 18
2 00 00	1 20 18	29.902			50.0	Minimum at 16 hours - 1 17 44
4 00 00	1 20 18	29.900			46.0	Mean - - - 1 20 31
6 00 00	1 20 32	29.900			44.0	
8 00 00	1 20 32	29.900			41.0	
10 00 00	1 20 04	29.902			41.0	
Noon	1 18 35	29.970			40.5	
14 00 00	1 18 48	29.998			46.0	
16 00 00	1 17 44	29.952			51.0	
18 00 00	1 21 36	29.938			54.0	
20 00 00	1 22 38	29 922			60.0	
22 00 00	1 23 18	29.910			58.0	

NOVEMBER 14, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 19 36	29.900			52.0	Maximum at 16 hours - 1 25 16
2 00 00	1 17 50	30.000			51.0	Minimum at 2 hours - 1 17 50
4 00 00	1 19 27	30.080			48.0	Mean - - - 1 21 33
6 00 00	1 19 27	30.100			48.0	
8 00 00	1 21 59	30.040			46.0	
10 00 00	1 22 35	30.050			40.0	
Noon	1 20 41	30.100			36.0	
14 00 00	1 18 18	30.040			42.0	
16 00 00	1 25 16	30.014			46.0	
18 00 00	1 22 03	29.950			53.0	
20 00 00	1 24 44	29.850			56.0	
22 00 00	1 23 48	29.800			56.0	

NOVEMBER 15, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 20 04	29.784			52.0	Maximum at 12 hours - 1 27 16
2 00 00	1 19 06	29.685			51.0	Minimum at 6 hours - 1 17 02
4 00 00	1 18 27	29.650			50.0	Mean - - - 1 22 09
6 00 00	1 17 02	29.590			49.0	
8 00 00	1 25 05	29.584			46.0	
10 00 00	1 19 20	29.620			48.0	
Noon	1 27 16	29.674			46.5	
14 00 00	1 22 54	29.700			46.0	
16 00 00	1 22 52	29.710			49.0	
18 00 00	1 26 53	29.726			47.0	
20 00 00	1 24 22	29.758			48.0	
22 00 00	1 22 18	29.850			49.0	

NOVEMBER 16, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 18	29.850			43.0	Maximum at 16 hours - 1 30 18
2 00 00	1 18 48	29.850			38.0	Minimum at 6 hours - 1 17 58
4 00 00	1 18 47	29.850			40.0	Mean - - - 1 24 08
6 00 00	1 17 58	29.868			42.0	
8 00 00	1 21 17	29.850			38.0	
10 00 00	1 19 25	29.872			38.0	
Noon	1 19 25	29.924			36.0	
14 00 00	1 19 35	29.950			44.0	
16 00 00	1 30 18	30.014			40.0	
18 00 00	1 23 18	29.968			40.0	
20 00 00	1 22 03	29.968			39.0	
22 00 00	1 20 13	30.000			38.0	
NOVEMBER 17, 1840.						
0 00 00	1 13 08	30.000			38.0	Maximum at 20 hours - 1 26 20
2 00 00	1 18 08	30.000			36.0	Minimum at 0 hours - 1 13 08
4 00 00	1 16 22	30.032			34.0	Mean - - - 1 19 44
6 00 00	1 18 21	30.034			33.0	
8 00 00	1 21 43	30.020			31.0	
10 00 00	1 20 58	30.020			32.0	
Noon	1 18 26	30.000			32.0	
14 00 00	1 19 28	30.016			32.0	
16 00 00	1 19 10	30.000			37.0	
18 00 00	1 23 45	29.936			40.0	
20 00 00	1 26 20	29.893			41.0	
22 00 00	1 21 07	29.912			42.0	
NOVEMBER 18, 1840.						
0 00 00	1 19 04	29.888			40.0	Maximum at 22 hours - 1 24 13
2 00 00	1 19 04	29.900			40.0	Minimum at 14 hours - 1 17 32
4 00 00	1 18 28	29.900			37.0	Mean - - - 1 20 52.5
6 00 00	1 21 25	29.900			36.0	
8 00 00	1 20 29	29.850			36.0	
10 00 00	1 20 02	29.836			38.0	
Noon	1 18 47	29.852			37.0	
14 00 00	1 17 32	29.850			38.0	
16 00 00	1 22 45	29.800			35.0	
18 00 00	1 23 51	29.750			36.0	
20 00 00	1 24 12	29.652			36 0	
22 00 00	1 24 13	29.700			34.0	

OBSERVATIONS AT WASHINGTON—1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
NOVEMBER 19, 1840.						
h. m. s.	° ' "	*Inches.*	°	°	°	° ' "
0 00 00	1 24 12	29.700			32.0	Maximum at 0 hours - 1 24 12
2 00 00	1 23 16	29.700			33.0	Minimum at 14 hours - 1 18 59
4 00 00	1 22 15	29.720			32.0	Mean - - - 1 21 35.5
6 00 00	1 21 36	29.750			32.0	
8 00 00	1 20 51	29.811			31.0	
10 00 00	1 20 18	29.814			30.0	
Noon	1 20 16	29.840			30.0	
14 00 00	1 18 59	29.836			30.0	
16 00 00	1 20 35	29.900			33.0	
18 00 00	1 23 01	29.878			37.0	
20 00 00	1 22 35	29.878			39.0	
22 00 00	1 22 35	29.920			38.0	
NOVEMBER 20, 1840.						
0 00 00	1 20 30	29.936			35.0	Maximum at 18 hours - 1 28 15
2 00 00	1 21 20	29.960			33.0	Minimum at 14 hours - 1 18 49
4 00 00	1 20 40	29.968			32.0	Mean - - - 1 23 32
6 00 00	1 21 36	29.974			31.0	
8 00 00	1 20 08	30.002			30.0	
10 00 00	1 20 08	30.038			30.0	
Noon	1 19 36	30.070			31.0	
14 00 00	1 18 49	30.087			38.0	
16 00 00	1 25 58	30.118			38.0	
18 00 00	1 28 15	30.118			40.5	
20 00 00	1 25 03	30.100			44.0	
22 00 00	1 25 03	30.102			43.0	
NOVEMBER 21, 1840.						
0 00 00	1 12 17	30.128			39.0	Maximum at 20 hours - 1 30 46
2 00 00	1 04 27	30.150			36.0	Minimum at 2 hours - 1 04 27
4 00 00	1 20 12	30.150			34.0	Mean - - - 1 17 36.5
6 00 00	1 28 11	30.150			32.0	
8 00 00	1 23 18	30.158			31.0	
10 00 00	1 21 06	30.140			28.0	
Noon	1 20 48	30.140			26.0	
14 00 00	1 24 48	30.148			28.0	
16 00 00	1 27 10	30.220			35.0	
18 00 00	1 26 30	30.150			42.0	
20 00 00	1 30 46	30.110			46.0	
22 00 00	1 25 24	30.110			44.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
NOVEMBER 22, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 08	30.125			40.0	Maximum at 14 hours - 1 27 11
2 00 00	1 22 08	30.129			39 0	Minimum at 10 hours - 1 09 18
4 00 00	1 20 19	30.130			36.0	Mean - - - 1 18 14.5
6 00 00	1 19 40	30.050			35.0	
8 00 00	1 14 25	30.009			34.0	
10 00 00	1 09 18	30.000			34.0	
Noon	1 20 35	29.929			36.0	
14 00 00	1 27 11	29.911			36.0	
16 00 00	1 20 34	29.860			39.0	
18 00 00	1 23 47	29.756			42.0	
20 00 00	1 23 50	29.612			46.0	
22 00 00	1 16 42	29.564			54.0	
NOVEMBER 23, 1840.						
0 00 00	1 20 41	29.512			56.0	Maximum at 18 hours - 1 25 39
2 00 00	1 19 41	29.350			57.0	Minimum at 14 hours - 1 18 44
4 00 00	1 17 06	29.440			57.0	Mean - - - 1 22 11.5
6 00 00	1 22 17	29.466			54.0	
8 00 00	1 24 28	29.484			53 0	
10 00 00	1 19 43	29.484			52.0	
Noon	1 20 51	29.506			51.0	
14 00 00	1 18 44	29.550			53.0	
16 00 00	1 23 05	29.600			52.0	
18 00 00	1 25 39	29.650			51.0	
20 00 00	1 23 58	29.734			49.0	
22 00 00	1 21 35	29.850			48.0	
NOVEMBER 24, 1840.						
0 00 00	1 19 21	29.900			44.0	Maximum at 20 hours - 1 25 10
2 00 00	1 21 02	29.950			42.0	Min. at 4 and 12 hours - 1 19 21
4 00 00	1 19 21	29.968			40.0	Mean - - - 1 22 15.5
6 00 00	1 19 30	29.980			39.0	
8 00 00	1 21 01	30.000			38.0	
10 00 00	1 23 54	30.020			36.0	
Noon	1 19 21	30.090			32.0	
14 00 00	1 19 57	30.124			40.0	
16 00 00	1 21 23	30.150			42.0	
18 00 00						
20 00 00	1 25 10	30.130			45.0	
22 00 00	1 21 31	30.130			46.0	

OBSERVATIONS AT WASHINGTON--1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
NOVEMBER 25, 1840.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 19 49	30.120			46.0	Maximum at 20 hours - 1 23 54
2 00 00	1 19 38	30.100			43.0	Minimum at 14 hours - 1 18 06
4 00 00	1 20 06	30.100			41.0	Mean - - - 1 21 00
6 00 00	1 20 06	30.030			41.0	
8 00 00	1 20 26	30.020			40.0	
10 00 00	1 20 33	30.010			39.0	
Noon	1 18 58	30.004			43.0	
14 00 00	1 18 06	30.000			44.0	
16 00 00	1 19 38	29.950			46.0	
18 00 00	1 23 53	29.879			44.0	
20 00 00	1 23 54	29.800			45.0	
22 00 00	1 22 49	29.750			42.0	
NOVEMBER 26, 1840.						
0 00 00	1 20 28	29.750			43.0	Maximum at 20 hours - 1 25 05
2 00 00	1 19 24	29.750			42.0	Minimum at 14 hours - 1 18 17
4 00 00	1 19 23	29.760			41.0	Mean - - - 1 21 41
6 00 00	1 18 44	29.764			41.0	
8 00 00	1 18 29	29.750			41.0	
10 00 00	1 18 35	29.751			40.0	
Noon	1 19 15	29.793			38.0	
14 00 00	1 18 17	29.800			38.0	
16 00 00	1 19 37	29.850			39.0	
18 00 00	1 23 22	29.810			42.5	
20 00 00	1 25 05	29.800			42.0	
22 00 00	1 22 08	29.832			42.0	
NOVEMBER 27, 1840.						
0 00 00	1 23 00	29.860			38.0	Maximum at 20 hours - 1 24 20
2 00 00	1 20 45	29.890			36.0	Minimum at 14 hours - 1 17 56
4 00 00	1 18 44	29.900			34.0	Mean - - - 1 21 08
6 00 00	1 20 31	29.920			33.0	
8 00 00	1 20 50	29.944			32.0	
10 00 00	1 20 02	29.992			31.0	
Noon	1 19 56	30.056			33.0	
14 00 00	1 17 56	30.126			34.0	
16 00 00	1 19 12	30.150			36.0	
18 00 00	1 23 59	30.182			40.0	
20 00 00	1 24 20	30.190			43.0	
22 00 00	1 23 42	30.236			42.0	

NOVEMBER 28, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ' "	Inches.	°	°	°	° ' "
0 00 00	1 22 12	30.230			62.0	Maximum at 20 hours - 1 25 55
2 00 00	1 20 23	30.242			59.0	Minimum at 12 hours - 1 17 55
4 00 00	1 20 43	30.240			60.0	Mean - - - 1 21 55
6 00 00	1 21 03	30.224			56.0	
8 00 00	1 20 02	30.200			58.0	
10 00 00	1 18 05	30.200			48.0	REMARKS.
Noon	1 17 55	30.200			44.0	
14 00 00	1 17 56	30.200			44.0	*Fire in the observatory till 10 hours.
16 00 00	1 23 10	30.205			42.0	
18 00 00	1 24 17	30.144			45.0	
20 00 00	1 25 55	30.086			52.0	
22 00 00	1 22 13	30.100			47.0	

NOVEMBER 29, 1840.

0 00 00	1 21 41	30.094			42.0	Maximum at 20 hours - 1 24 51
2 00 00	1 21 37	30 074			39.0	Minimum at 14 hours - 1 18 00
4 00 00	1 21 03	30.050			40.0	Mean - - - 1 21 25.5
6 00 00	1 22 17	30.050			40.5	
8 00 00	1 20 41	30.050			42.0	
10 00 00	1 20 24	30.050			41.0	
Noon	1 19 36	30.052			41.0	
14 00 00	1 18 00	30.064			41.0	
16 00 00	1 20 21	30.050			44.0	
18 00 00	1 24 33	29.950			58.0	
20 00 00	1 24 51	29.924			58.0	
22 00 00	1 23 38	29.910			54.0	

NOVEMBER 30, 1840.

0 00 00	1 22 43	29.890			55.0	Maximum at 20 hours - 1 23 56
2 00 00	1 21 48	29 890			55.0	Minimum at 14 hours - 1 19 27
4 00 00	1 21 47	29.887			54.0	Mean - - - 1 21 41.5
6 00 00	1 21 42	29.887			50.0	
8 00 00	1 21 40	29.846			48.0	
10 00 00	1 20 39	29.846			48.0	
Noon	1 20 39	29.850			48.0	
14 00 00	1 19 27	29.850			50.0	
16 00 00	1 22 09	29.850			52.0	
18 00 00	1 23 11	29.811			53.0	
20 00 00	1 23 56	29.800			56.0	
22 00 00	1 23 02	29.820			54.0	

OBSERVATIONS AT WASHINGTON—1840.

DECEMBER 1, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 53	29.832			54.0	Maximum at 20 hours - 1 23 35
2 00 00	1 21 34	29.900			50.0	Minimum at 16 hours - 1 19 28
4 00 00	1 21 16	30.050			48.0	Mean - - - 1 21 31.5
6 00 00	1 20 55	30.050			47.0	
8 00 00	1 20 32	30.150			45.0	
10 00 00	1 20 20	30.150			34.0	
Noon	1 20 22	30.201			34.0	
14 00 00	1 19 31	30.241			35 0	
16 00 00	1 19 28	30.252			35.0	
18 00 00	1 23 05	30.252			36.0	
20 00 00	1 23 35	30.258			40.0	
22 00 00	1 22 25	30.300			42.0	

DECEMBER 2, 1840.

0 00 00	1 20 33	30.280			37.0	Maximum at 22 hours - 1 24 53
2 00 00	1 20 44	30.280			32.0	Minimum at 16 hours - 1 17 59
4 00 00	1 22 22	30 280			29.0	Mean - - - 1 21 26
6 00 00	1 20 42	30.276			26.0	
8 00 00	1 20 42	30.292			25.0	
10 00 00	1 19 31	30.306			23.0	
Noon	1 20 14	30.306			23.0	
14 00 00	1 19 08	30.332			32.0	
16 00 00	1 17 59	30.356			29.0	
18 00 00	1 21 55	30.322			38.0	
20 00 00	1 22 52	30.326			44.0	
22 00 00	1 24 53	30.350			44.0	

DECEMBER 3, 1840.

0 00 00	1 25 55	30.280			39.0	Maximum at 0 hours - 1 25 55
2 00 00	1 20 49	30.280			35.0	Minimum at 16 hours - 1 18 17
4 00 00	1 18 31	30.278			32.0	Mean - - - 1 22 06
6 00 00	1 19 44	30.250			31.0	
8 00 00	1 21 24	30.246			30.0	
10 00 00	1 19 35	30.282			29.0	
Noon	1 20 11	30.232			28.0	
14 00 00	1 18 41	30.250			32.0	
16 00 00	1 18 17	30.276			34.0	
18 00 00	1 21 37	30.238			45.0	
20 00 00	1 22 48	30.218			51.0	
22 00 00	1 23 08	30.300			50.0	

DECEMBER 4, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 18	30.288			44.0	Maximum at 20 hours - 1 25 21
2 00 00	1 20 36	30.300			40.0	Minimum at 14 hours - 1 19 29
4 00 00	1 20 34	30.340			37.0	Mean - - - 1 22 25
6 00 00	1 20 34	30.340			35.0	
8 00 00	1 20 25	30.340			35.0	
10 00 00	1 20 25	30.350			35.0	
Noon	1 20 25	30.420			35.0	
14 00 00	1 19 29	30.440			36.0	
16 00 00	1 19 52	30.451			38.0	
18 00 00	1 24 09	30.446			34.0	
20 00 00	1 25 21	30.376			33.0	
22 00 00	1 23 14	30.368			30.0	

DECEMBER 5, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 14	30.350			30.0	Maximum at 20 hours - 1 23 33
2 00 00	1 21 22	30.350			28.0	Minimum at 10 hours - 1 20 11
4 00 00	1 20 48	30.310			28.0	Mean - - - 1 21 52
6 00 00	1 20 30	30.310			28.0	
8 00 00	1 20 24	30.300			28.0	
10 00 00	1 20 11	30.250			27.0	
Noon	1 20 19	30.241			26.0	
14 00 00	1 20 48	30.220			26.0	
16 00 00	1 21 44	30.232			30.0	
18 00 00	1 21 44	30.183			28.0	
20 00 00	1 23 33	30.172			29.0	
22 00 00	1 23 16	30.184			28.0	

DECEMBER 6, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 28	30.191			28.0	Maximum at 18 hours - 1 24 32
2 00 00	1 21 24	30.191			28.0	Minimum at 10 hours - 1 19 46
4 00 00	1 21 17	30.182			27.0	Mean - - - 1 22 09
6 00 00	1 20 30	30.150			27.0	
8 00 00	1 20 20	30.100			27.0	
10 00 00	1 19 46	30.060			26.0	
Noon	1 19 54	30.057			25.0	
14 00 00	1 20 09	30.050			25.0	
16 00 00	1 21 34	30.034			28.0	
18 00 00	1 24 32	29.982			29.0	
20 00 00	1 24 30	29.990			32.0	
22 00 00	1 22 42	30.000			29.0	

OBSERVATIONS AT WASHINGTON—1840.

DECEMBER 7, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 46	29.980			28.0	Maximum at 22 hours - 1 23 47
2 00 00	1 20 56	30.020			28.0	Min. at 14 and 16 hours - 1 19 37
4 00 00	1 20 42	30.120			27.5	Mean - - - 1 21 42
6 00 00	1 21 07	30.132			27.0	
8 00 00	1 21 14	30.178			27.0	
10 00 00	1 21 14	30.216			26.0	
Noon	1 20 19	30.250			23.0	
14 00 00	1 19 37	30 292			30.0	
16 00 00	1 19 37	30.324			28.0	
18 00 00	1 22 24	30.300			36.0	
20 00 00	1 22 24	30.308			40.0	
22 00 00	1 23 47	30.342			40.0	

DECEMBER 8, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 31	30.334			34.0	Maximum at 20 hours - 1 24 45
2 00 00	1 21 31	30.328			30.0	Minimum at 14 hours - 1 20 22
4 00 00	1 21 17	30.332			27.0	Mean - - - 1 22 33.5
6 00 00	1 22 14	30.312			24.0	
8 00 00	1 22 14	30.286			23.0	
10 00 00	1 20 45	30.286			22.0	
Noon	1 20 47	30.250			20.0	
14 00 00	1 20 22	30.222			22.0	
16 00 00	1 20 51	30.236			27.0	
18 00 00	1 23 49	30.160			33.0	
20 00 00	1 24 45	30.112			41.0	
22 00 00	1 23 42	30.120			40.0	

DECEMBER 9, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 28	30.120			34.0	Maximum at 18 hours - 1 23 28
2 00 00	1 21 14	30.100			32.0	Minimum at 6 hours - 1 19 36
4 00 00	1 21 14	30.092			27.5	Mean - - - 1 21 32
6 00 00	1 19 36	30.070			26.0	
8 00 00	1 22 25	30.054			24.0	
10 00 00	1 20 54	30.041			24.0	
Noon	1 21 02	30.050			24.0	
14 00 00	1 20 42	30.054			25.0	
16 00 00	1 20 47	30.060			32.0	
18 00 00	1 23 28	30.040			35.0	
20 00 00	1 22 50	29.990			43.0	
22 00 00	1 21 34	29.990			42.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
DECEMBER 10, 1840.						
h. m. s.	° ' "	*Inches.*	°	°	°	° ' "
0 00 00	1 22 00	29.974			36.0	Maximum at 20 hours - 1 25 52
2 00 00	1 21 13	29.950			34.0	Minimum at 16 hours - 1 19 45
4 00 00	1 21 13	29.930			32.0	Mean - - - - 1 22 48.5
6 00 00	1 21 34	29.910			29.0	
8 00 00	1 21 34	29.900			29.0	
10 00 00	1 20 25	29.900			29.0	
Noon	1 20 27	29.892			30.0	
14 00 00	1 20 00	29.900			31.0	
16 00 00	1 19 45	29.890			38.0	
18 00 00	1 23 10	29.900			41.0	
20 00 00	1 25 52	29.898			45.0	
22 00 00	1 25 21	29.900			45.0	
DECEMBER 11, 1840.						
0 00 00	1 22 22	29.950			42.0	Maximum at 18 hours - 1 26 42
2 00 00	1 19 33	29.984			40.0	Minimum at 14 hours - 1 18 16
4 00 00	1 19 16	30.010			40.0	Mean - - - - 1 22 29
6 00 00	1 22 16	30.050			38.0	
8 00 00	1 21 44	30.102			36.0	
10 00 00	1 20 42	30.120			34.0	
Noon	1 20 17	30.170			33.0	
14 00 00	1 18 16	30.200			33.0	
16 00 00	1 19 35	30.284			34.0	
18 00 00	1 26 42	30.250			42.0	
20 00 00	1 25 35	30.250			49.0	
22 00 00	1 24 33	30.320			49.0	
DECEMBER 12, 1840.						
0 00 00	1 21 44	30.260			41.0	Maximum at 12 hours - 1 31 54
2 00 00	1 20 15	30.282			32.0	Minimum at 10 hours - 1 19 46
4 00 00	1 21 38	30.266			28.0	Mean - - - - 1 25 50
6 00 00	1 22 47	30.250			25.0	
8 00 00	1 25 00	30.248			25.0	
10 00 00	1 19 46	30.220			25.0	
Noon	1 31 54	30.198			27.0	
14 00 00	1 26 45	30.166			36.0	
16 00 00	1 22 12	30.132			34.0	
18 00 00	1 26 17	30.070			38.0	
20 00 00	1 25 31	29.974			38.0	
22 00 00	1 23 29	29.900			37.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
DECEMBER 13, 1840.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 51	29.832			37.0	Maximum at 16 hours - 1 28 35
2 00 00	1 14 48	29.750			37.0	Minimum at 2 hours - 1 14 48
4 00 00	1 17 54	29.700			38.0	Mean - - - - 1 21 41.5
6 00 00	1 18 52	29.628			37.0	
8 00 00	1 21 54	29.622			38.0	
10 00 00	1 20 47	29.622			37.0	
Noon	1 21 54	29.600			34.0	
14 00 00	1 19 25	29.630			34.0	
16 00 00	1 28 35	29.690			34.0	
18 00 00	1 24 45	29.684			40.0	
20 00 00	1 24 00	29.684			42.0	
22 00 60	1 23 04	29.770			45.0	
DECEMBER 14, 1840.						
0 00 00	1 21 04	29.742			43.0	Maximum at 20 hours - 1 24 05
2 00 00	1 13 00	29.750			41.0	Minimum at 2 hours - 1 13 00
4 00 00	1 19 19	29.760			40 0	Mean - - - 1 18 32.5
6 00 00	1 20 04	29.750			38 0	
8 00 00	1 21 52	29.764			36.0	
10 00 00	1 20 45	29.764			34.0	
Noon	1 21 54	29.780			32.0	
14 00 00	1 19 53	29.800			40.0	
16 00 00	1 19 57	28.800			42.0	
18 00 00	1 23 45	29.766			42.0	
20 00 00	1 24 05	29.736			43.0	
22 00 00	1 23 38	29.736			49.0	
DECEMBER ,15 1840.						
0 00 00	1 21 31	29.740			44.0	Maximum at 20 hours - 1 25 10
2 00 00	1 21 11	29.722			38.0	Minimum at 6 hours - 1 18 46
4 00 00	1 18 54	29.730			37.0	Mean - - - - 1 21 58
6 00 00	1 18 46	29.732			35.0	
8 00 00	1 22 12	29.732			35.0	
10 00 00	1 20 38	29.720			34.0	
Noon	1 21 58	29.720			32.0	
14 00 00	1 20 11	29.720			31.0	
16 00 00	1 18 50	29.750			34.0	
18 00 00	1 23 40	29.700			45.0	
20 00 00	1 25 10	29.649			50.0	
22 00 00	1 23 42	29.640			47.0	

MAGNETICAL AND METEOROLOGICAL

DECEMBER 16, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 31	29.640			45.0	Maximum at 20 hours - 1 26 06
2 00 00	1 20 36	29.650			44.0	Minimum at 16 hours - 1 18 46
4 00 00	1 19 33	29.650			44.0	Mean - - - 1 22 26
6 00 00	1 21 20	29.650			44.0	
8 00 00	1 21 32	29.650			43.0	
10 00 00	1 21 32	29.692			42.0	
Noon	1 21 26	29.723			42.0	
14 00 00	1 20 23	29.726			40.0	
16 00 00	1 18 46	29,742			42.0	
18 00 00	1 23 48	29.720			42.0	
20 00 00	1 26 06	29.664			39.0	
22 00 00	1 23 29	29.700			37.0	
DECEMBER 17, 1840.						
0 00 00	1 22 12	29.720			37.0	Maximum at 20 hours - 1 26 41
2 00 00	1 20 52	29.767			36.0	Minimum at 10 hours - 1 19 52
4 00 00	1 20 23	29.812			34.0	Mean - - - 1 23 16.5
6 00 00	1 21 33	29.790			33.0	
8 00 00	1 22 13	29.820			32.0	
10 00 00	1 19 52	29.842			32.0	
Noon	1 21 29	29.850			30.0	
14 00 00	1 22 54	29.866			33,0	
16 00 00	1 20 20	29.876			33.0	
18 00 00	1 26 24	29.874			38.0	
20 00 00	1 26 41	29.874			38.0	
22 00 00	1 25 15	29.900			37.0	
DECEMBER 18, 1840.						
0 00 00	1 20 14	29.950			34.0	Maximum at 20 hours - 1 23 43
2 00 00	1 17 06	29.950			33.0	Minimum at 2 hours - 1 17 06
4 00 00	1 18 57	29.978			32.0	Mean - - - 1 20 24.5
6 00 00	1 19 54	29.978			31.0	
8 00 00	1 22 15	29.984			30.0	
10 00 00	1 20 29	29.978			27.0	
Noon	1 21 58	29.978			26.0	
14 00 00	1 20 47	30.026			31.0	
16 00 00	1 18 16	30.070			38.0	
18 00 00	1 22 30	30.082			27.0	
20 00 00	1 23 43	30.066			28.0	
22 00 00	1 22 48	30.150			27.0	

OBSERVATIONS AT WASHINGTON—1840.

DECEMBER 19, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 51	30.150			24.0	Maximum at 12 hours - 1 28 08
2 00 00	1 21 11	30.174			22.0	Minimum at 8 hours - 1 21 03
4 00 00	1 21 11	30.200			21.0	Mean - - - - 1 24 35.5
6 00 00	1 22 07	30.200			20.0	
8 00 00	1 21 03	30.200			19.0	
10 00 00	1 24 23	30.200			18.0	
Noon	1 28 08	30.222			17.0	
14 00 00	1 24 40	30.262			18.0	
16 00 00	1 24 35	30.250			22.0	
18 00 00	1 27 58	30.214			28.0	
20 00 00	1 25 37	30.190			28.0	
22 00 00	1 25 22	30.200			28.0	

DECEMBER 20, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 22 37	30.200			24.0	Maximum at 14 hours - 1 34 39
2 00 00	1 18 34	30.212			24.0	Minimum at 8 hours - 1 18 19
4 00 00	1 18 27	30.212			20.0	Mean - - - - 1 26 29
6 00 00	1 18 22	30.217			20.0	
8 00 00	1 18 19	30.219			19.0	
10 00 00	1 18 32	30.230			18.0	
Noon	1 25 12	30.270			16.0	
14 00 00	1 34 39	30.274			16.0	
16 00 00	1 21 59	30.310			21.0	
18 00 00	1 24 15	30.250			28.0	
20 00 00	1 28 45	30.220			31.0	
22 00 00	1 28 00	30.180			30.0	

DECEMBER 21, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 18 07	30.167			28.0	Maximum at 12 hours - 1 44 51
2 00 00	1 06 53	30.150			27.0	Minimum at 4 hours - 1 04 16
4 00 00	1 04 16	30.147			27.0	Mean - - - - 1 24 33.5
6 00 00	1 07 38	30.142			27.0	
8 00 00	1 19 18	30.140			26.0	
10 00 00	1 27 27	30.185			26.0	
Noon	1 44 51	30.200			28.0	
14 00 00	1 26 42	30.234			27.0	
16 00 00	1 30 05	30.300			28.0	
18 00 00	1 24 15	30.250			33.0	
20 00 00	1 26 55	30.252			33.0	
22 00 00	1 27 19	30.250			33.0	

DECEMBER 22, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 16	30.204			33.0	Maximum at 0 hours - 1 24 16
2 00 00	1 14 21	30.217			31.0	Minimum at 2 hours - 1 14 21
4 00 00	1 18 32	30.154			31.0	Mean - - -1 19 18.5
6 00 00	1 18 37	30.094			30.0	
8 00 00	1 20 45	30.028			31.0	
10 00 00	1 21 59	29.938			32.0	
Noon	1 22 11	29.870			33.0	
14 00 00	1 19 18	29.840			36.0	
16 00 00	1 19 12	29.842			38.0	
18 00 00	1 23 29	29.758			43.0	
20 00 00	1 24 11	29.758			48.0	
22 00 00	1 24 11	29.884			43.0	

DECEMBER 23, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 32	29.982			38.0	Maximum at 22 hours - 1 27 10
2 00 00	1 21 03	29.990			35.0	Minimum at 10 hours - 1 18 30
4 00 00	1 20 41	30.008			32.0	Mean - - - 1 22 50
6 00 00	1 19 43	30.050			32.0	
8 00 00	1 20 25	30.130			31.0	
10 00 00	1 18 30	30.142			29.0	
Noon	1 24 46	30.190			26.0	
14 00 00	1 19 31	30.220			32.0	
16 00 00	1 18 37	30.280			30.0	
18 00 00	1 24 37	30.224			33.0	
20 00 00	1 25 47	30.166			36.0	
22 00 00	1 27 10	30.137			36.0	

DECEMBER 24, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 02	30.100			40.0	Maximum at 2 hours - 1 27 19
2 00 00	1 27 19	30.000		27.0	40.0	Minimum at 6 hours - 1 19 30
4 00 00	1 19 33	29.950		29.0	44.0	Mean - - - 1 23 24.5
6 00 00	1 19 30	29.900		28.0	45.0	
8 00 00	1 22 46	29.900		27.5	42.0	
10 00 00	1 22 34	29.986		27.0	42.0	
Noon	1 23 36	29.936		26.0	42.0	
14 00 00	1 21 14	29.950		27.0	38.0	
16 00 00		29.938		35.0	40.0	
18 00 00	1 25 21	29.932		37.0	48.0	
20 00 00	1 27 14	29.916		40.5	53.0	
22 00 00	1 23 45	29.950		38.0	52.0	

DECEMBER 25, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 41	29.966		36.0	42.0	Maximum at 20 hours - 1 23 45
2 00 00	1 23 35	29.966			40.0	Minimum at 6 hours - 1 19 24
4 00 00	1 19 39	30.000			32.0	Mean - - - 1 21 34.5
6 00 00	1 19 24	30.000			25.0	
8 00 00	1 19 28	30.012			24.0	
10 00 00	1 19 31	30.020			22.0	
Noon	1 20 19	30.090			22.0	
14 00 00	1 20 53	30.100			22.0	
16 00 00	1 20 45	30.150			25.0	
18 00 00	1 21 55	30.120			25.0	
20 00 00	1 23 45	30.070			30.0	
22 00 00	1 23 26	30.030			32.0	

DECEMBER 26, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 39	29.960			30.0	Maximum at 20 hours - 1 26 18
2 00 00	1 18 49	29.920			30.0	Minimum at 2 hours - 1 18 49
4 00 00	1 21 05	29.920			30.0	Mean - - - 1 22 33.5
6 00 00	1 19 18	29.900			30.0	
8 00 00	1 21 49	29.752			29.0	
10 00 00	1 21 24	29.700			29.0	
Noon	1 21 24	29.640			30.0	
14 00 00	1 20 45	29.550			32.0	
16 00 00	1 19 14	29.470			34.0	
18 00 00	1 23 55	29.400			36.0	
20 00 00	1 26 18	29.384			36.0	
22 00 00	1 23 39	29.420			37.0	

DECEMBER 27, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 29	29.450			36.0	Maximum at 20 hours - 1 25 57
2 00 00	1 20 50	29.468			33.0	Minimum at 14 hours - 1 18 10
4 00 00	1 20 50	29.500			32.0	Mean - - - 1 22 08.5
6 00 00	1 20 50	29.512			33.0	
8 00 00	1 21 08	29.532			34.0	
10 00 00	1 20 48	29.544			35.0	
Noon	1 20 08	29.560			35.0	
14 00 00	1 18 10	29.620			42.0	
16 00 00	1 18 25	29 670			33.0	
18 00 00	1 22 41	29.680			31.0	
20 00 00	1 25 57	29.720			29.0	
22 00 00	1 23 14	29.796			28.0	

DECEMBER 28, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 28	29.800			26.0	Maximum at 20 hours - 1 26 57
2 00 00	1 21 02	29.850			24.0	Minimum at 16 hours - 1 18 04
4 00 00	1 20 40	29.882			24.0	Mean - - - - 1 22 30.5
6 00 00	1 20 24	29.907			23.0	
8 00 00	1 21 14	29.951			22.0	
10 00 00	1 21 16	29.990			22.0	
Noon	1 20 36	30.030			22.0	
14 00 00	1 19 38	30.070			23.0	
16 00 00	1 18 04	30.137			29.0	
18 00 00	1 21 32	30.092			33.0	
20 00 00	1 26 57	30.066			38.0	
22 00 00	1 23 42	30.140			38.0	

DECEMBER 29, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 57	30.078			32.0	Maximum at 12 hours - 1 28 53
2 00 00	1 22 57	30.070			31.0	Minimum at 10 hours - 1 13 43
4 00 00	1 22 11	30.082			30.0	Mean - - - - 1 21 18
6 00 00	1 21 31	30.070			29.0	
8 00 00	1 14 38	30.082			27.0	
10 00 00	1 13 43	30.090			28.0	
Noon	1 28 53	30.100			28.0	
14 00 00	1 22 12			22.0	28.0	
16 00 00	1 23 25	30.136		27.0	33.0	
18 00 00	1 24 40	30.100			38.0	
20 00 00	1 23 58	30.100			42.0	
22 00 00	1 23 53	30.130			42.0	

DECEMBER 30, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 28	30.156			36.0	Maximum at 22 hours - 1 28 31
2 00 00	1 21 18	30.156			33.0	Minimum at 16 hours - 1 18 00
4 00 00	1 21 09	30.158			31.0	Mean - - - - 1 23 15.5
6 00 00	1 21 09	30.162			30.0	
8 00 00	1 20 39	30.168			30.0	
10 00 00	1 20 31	30.150			30.0	
Noon	1 19 21	30.160			30.0	
14 00 00	1 19 05	30.156			30.0	
16 00 00	1 18 00	30.200			35.0	
18 00 00	1 21 18	30.100			40.0	
20 00 00	1 25 34	30.100			44.0	
22 00 00	1 28 31	30.100			44.0	

OBSERVATIONS AT WASHINGTON.—1841.

DECEMBER 31, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometer.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 24	30.130			42.0	Maximum at 20 hours - 1 23 53
2 00 00	1 22 56	30.130			38.0	Minimum at 16 hours - 1 16 43
4 00 00	1 20 01	30.100			36.0	Mean - - - 1 20 18
6 00 00	1 20 47	30.073			35.0	
8 00 00	1 21 37	30.048			34.0	
10 00 00	1 21 37	30.044			34.0	
Noon	1 21 37	30.040			34.0	
14 00 00	1 20 23	30.040			34.0	
16 00 00	1 16 43	30.100			36.0	
18 00 00	1 20 55	30.050			43.0	
20 00 00	1 23 53	30.050			47.0	
22 00 00	1 23 04	30.090			47.0	

JANUARY 1, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 50	30.122			43.0	Maximum at 22 hours - 1 25 31
2 00 00	1 22 08	30.124	33.0	20.0	40.0	Minimum at 16 hours - 1 17 35
4 00 00	1 20 11	30.148			39.0	Mean - - - 1 21 32
6 00 00	1 19 56	30.127			38.0	
8 00 00	1 21 49	30.120			36.0	
10 00 00	1 22 02	30.064			34.0	
Noon	1 22 02	29.960			32.0	
14 00 00	1 21 54	29.923	40.0	24.0	38.0	
16 00 00	1 17 35	29.764			28.0	
18 00 00	1 23 10	29.600			27.0	
20 00 00	1 24 17	29.460	36.5	23.0	27.0	
22 00 00	1 25 31	29.410			26.0	

JANUARY 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 04	29.418	34.7	22.0	24.0	Maximum at 22 hours - 1 25 02
2 00 00	1 21 42	29.450			24.0	Minimum at 16 hours - 1 18 01
4 00 00	1 20 46	29.480			24.0	Mean - - - 1 21 31.5
6 00 00	1 19 59	29.508	33.0	21.0	24.0	
8 00 00	1 19 59	29.530			23.0	
10 00 00	1 18 49	29.548			20.0	
Noon	1 19 54	29.548	34.0	20.0	20.0	
14 00 00	1 20 03	29.558			23.0	
16 00 00	1 18 01	29.584			24.0	
18 00 00	1 20 40	29.540			33.0	
20 00 00	1 24 46	29.568	35.0	29.7	33.0	
22 00 00	1 25 02	29.664			32.0	

JANUARY 3, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 23 37	29.702	24.5	25.0	25.0	Maximum at 22 hours - 1 23 45
2 00 00	1 21 19	29.746			22.0	Minimum at 16 hours - 1 18 58
4 00 00	1 20 17	29.784			17.0	Mean - - - 1 21 21.5
6 00 00	1 20 37	29.811	28.0	14.0	15.0	
8 00 00	1 20 48	29.850			12.0	
10 00 00	1 21 32	29.880			9.0	
Noon	1 21 04	29.902	22.0	7.0	7.0	
14 00 00	1 20 21	29.956			17.0	
16 00 00	1 18 58	29.964			13.0	
18 00 00	1 23 04	29.984	23.0	16.0	18.0	
20 00 00	1 23 37	29.934			20.0	
22 00 00	1 23 45	30.030			20.0	

JANUARY 4, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 45	30.042	22.0	14.0	16.0	Maximum at 22 hours - 1 24 39
2 00 00	1 21 11	30.074			13.0	Minimum at 16 hours - 1 19 31
4 00 00	1 20 10	30.076			11.0	Mean - - - 1 22 05
6 00 00	1 20 04	30.100	21.0	8.0	11.0	
8 00 00	1 20 04	30.120			10.0	
10 00 00	1 20 39	30.130			10.0	
Noon	1 20 36	30.146	18.0	9.0	10.0	
14 00 00	1 20 26	30.150			11.0	
16 00 00	1 19 31	30.190			18.0	
18 00 00	1 23 45	30.150	25.0	19.5	26.0	
20 00 00	1 23 45	30.160			32.0	
22 00 00	1 24 39	30.250			33.0	

JANUARY 5, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 45	30.211	24.2	22.0	24.0	Maximum at 20 hours - 1 23 37
2 00 00	1 20 36	30.250			20.0	Minimum at 16 hours - 1 17 57
4 00 00	1 20 36	30.271			18.0	Mean - - - 1 20 47
6 00 00	1 19 55	30.271	24.0	13.0	15.0	
8 00 00	1 20 24	30.301			15.0	
10 00 00	1 21 56	30.322			15.0	
Noon	1 21 55	30.366	25.0	12.0	16.0	
14 00 00	1 20 33	30.380			18.0	
16 00 00	1 17 57	30.440			23.0	
18 00 00	1 20 54	30.392	29.0	27.0	29.0	
20 00 00	1 23 37	30.364			32.0	
22 00 00	1 23 01	30.350			37.0	

JANUARY 6, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 04	30.330	29.0	28.0	30.0	Maximum at 22 hours - 1 22 53
2 00 00	1 21 04	30.330			30.0	Minimum at 16 hours - 1 18 15
4 00 00	1 21 04	30.350			29.0	Mean - - - - 1 20 34
6 00 00	1 21 04	30.282	29 0	29.0	30.0	
8 00 00	1 21 24	30.282			29.0	
10 00 00	1 21 24	30.250			30.0	
Noon	1 21 24	30.224	32.5	33.0	30.0	
14 00 00	1 21 02	30.224			30.0	
16 00 00	1 18 15	30.220			36.0	
18 00 00	1 21 48	30.150	34.0	34.0	38.0	
20 00 00	1 22 15	30.136			38.0	
22 00 00	1 22 53	30.128			44.5	
JANUARY 7, 1841.						
0 00 00	1 22 16	30.126	34.0	33.5	38.0	Maximum at 18 hours - 1 24 51
2 00 00	1 21 24	30.100			37.0	Minimum at 6 hours - 1 15 05
4 00 00	1 21 24	30.062			39.0	Mean - - - - 1 19 58
6 00 00	1 15 05	30.000	34.0	33.0	42.0	
8 00 00	1 19 04	29.958			48.0	
10 00 00	1 20 11	29.940			50.0	
Noon	1 19 03	29.920	40.0	38.0	51.0	
14 00 00	1 23 21	29.860			56.0	
16 00 00	1 21 43	29.820			56.0	
18 00 00	1 24 51	29.781	46.0	55.0	59.0	
20 00 00	1 22 47	29.764			58.0	
22 00 00	1 22 36	29.774			68.0	
JANUARY 8, 1841.						
0 00 00	1 20 42	29.774	48.5	54.0	60.0	Maximum at 12 hours - 1 27 31
2 00 00	1 20 42	29.810			57.0	Minimum at 4 hours - 1 17 56
4 00 00	1 17 56	29.834			55.0	Mean - - - - 1 22 43.5
6 00 00	1 20 51	29.872	49.0	50.0	52.0	
8 00 00	1 20 51	29.940			48.0	
10 00 00	1 19 24	29.950			48.0	
Noon	1 27 31	30.060	47.0	48.0	46.0	
14 00 00	1 20 27	30.070			47.0	
16 00 00	1 18 16	30.086			45.0	
18 00 00	1 22 05	30.088	49.0	48.0	50.0	
20 00 00	1 23 29	30.050			50.0	
22 00 00	1 23 42	30.040			54.0	

JANUARY 9, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 34	30.040	49.5	53.0	48.0	Maximum at 20 hours - 1 27 12
2 00 00	1 23 30	30.070			45.0	Minimum at 4 hours - 1 19 15
4 00 00	1 19 15	30.078			40.0	Mean - - - 1 23 13.5
6 00 00	1 19 20	30.090	49.0	38.0	38.0	
8 00 00	1 22 37	30.100			36.0	
10 00 00	1 22 38	30.120			34.0	
Noon	1 22 38	30.120	47.0	34.0	34.0	
14 00 00	1 22 38	30.120			35.0	
16 00 00	1 18 26	30.182			37.0	
18 00 00	1 22 14	30.143	48.0	36.0	44.0	
20 00 00	1 27 12	30.128			48.0	
22 00 00	1 23 48	30.128			52.0	

JANUARY 10, 1841.

0 00 00	1 22 12	30.122	48.0	41.2	42.0	Maximum at 20 hours - 1 24 54
2 00 00	1 22 26	30.150			40.0	Minimum at 16 hours - 1 19 13
4 00 00	1 21 01	30.143			39 0	Mean - - - 1 22 03.5
6 00 00	1 20 39	30.126	47.0	35.0	38.0	
8 00 00	1 21 55	30.112			36.0	
10 00 00	1 21 24	30.100			36.0	
Noon	1 23 06	30.097	35.0	34.0	36.0	
14 00 00	1 20 29	30.092			36.0	
16 00 00	1 19 13	30.120			40.0	
18 00 00	1 23 23	30.040	47.0	40.0	40.0	
20 00 00	1 24 54	30.036			40.0	
22 00 00	1 23 07	30.050			40.0	

JANUARY 11, 1841.

0 00 00	1 21 35	30.030	44.0	38.0	40.0	Maximum at 20 hours - 1 25 20
2 00 00	1 21 14	30.030		37.0	40.0	Minimum at 16 hours - 1 16 29
4 00 00	1 20 37	30.028		37.0	40.0	Mean - - - 1 20 54.5
6 00 00	1 20 37	29.992	48.0	37.0	40.0	
8 00 00	1 20 35	29.980		37.0	40.0	
10 00 00	1 20 41	29.850		37.0	40.0	
Noon	1 20 47	29.870	48.0	37.0	40.0	
14 00 00	1 20 50	29.882		37.0	40.0	
16 00 00	1 16 29	29.876		40.0	39.0	
18 00 00	1 22 03	29.800	47.0	41.0	42.0	
20 00 00	1 25 20	29.740		44.0	44.0	
22 00 00	1 23 37	29.774		43.0	44.0	

OBSERVATIONS AT WASHINGTON—1841.

JANUARY 12, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.				
h. m. s.	° ′ ″	Inches.	°	°	°		°	′	″
0 00 00	1 21 33	29.850	40.0	43.0	44.0	Maximum at 20 hours -	1	24	00
2 00 00	1 19 14	29.878		42.0	43.0	Minimum at 16 hours -	1	18	34
4 00 00	1 21 00	29.930		41.0	43.0	Mean - - -	1	21	17
6 00 00	1 21 11	29.950	47.0	41.0	42.0				
8 00 00	1 21 10	30.000		40.0	42.0				
10 00 00	1 21 20	30.088		40.0	42.0				
Noon	1 21 20	30.154	46.0	38.0	40.0				
14 00 00	1 18 36	30.218		39.0	40.0				
16 00 00	1 18 34	30.260		43.7	41.0				
18 00 00	1 22 18	30.246	46.0	43.5	44.5				
20 00 00	1 24 00	30.248		44.5	48.0				
22 00 00	1 21 54	30.267		43.5	48.0				

JANUARY 13, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.				
0 00 00	1 19 09	30.288	50.5	43.0	43 0	Maximum at 14 hours -	1	27	14
2 00 00	1 18 19	30.250		40.0	41.0	Minimum at 10 hours -	1	16	22
4 00 00	1 19 01	30.264		38.5	38.0	Mean - - -	1	21	48
6 00 00	1 19 01	30.250	51.0	35.0	36.0				
8 00 00	1 19 16	30.214		34.0	36.0				
10 00 00	1 16 22	30.214		34.0	36.0				
Noon	1 20 37	30.150	47.0	34.0	36.0				
14 00 00	1 27 14	30.140		36.5	35.0				
16 00 00	1 16 37	30.100		37.0	32.0				
18 00 00	1 20 26	29.950	47.0	36.0	32.0				
20 00 00	1 21 07	29.904		36.0	32.0				
22 00 00	1 21 10	29.900		37.0	35.0				

JANUARY 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.				
0 00 00	1 21 32	29.900	46.0	37.0	35.0	Maximum at 20 hours -	1	26	19
2 00 00	1 16 56	29.968		33.0	37.0	Minimum at 2 hours -	1	16	56
4 00 00	1 18 18	29.992		33.0	36.0	Mean - - -	1	21	37.5
6 00 00	1 19 02	30.024	47.0	34.0	36.0				
8 00 00	1 19 26	30.046		34.0	36.0				
10 00 00	1 20 22	30.088		34.0	36.0				
Noon	1 23 38	30.110	44.0	34.0	35.0				
14 00 00	1 18 20	30.164		34.0	42.0				
16 00 00	1 19 19	30.200		33.0	38.0				
18 00 00	1 22 08	30.184	44.0	33.0	39.0				
20 00 00	1 26 19	30.150		34.0	38.0				
22 00 00	1 24 15	30.184		35.0	37.0				

JANUARY 15, 1841.

Mean time,* Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 11	30.209	45.2	36.0	36.0	Maximum at 22 hours - 1 24 29
2 00 00	1 20 08	30.226		33.0	35.5	Minimum at 4 hours - 1 15 56
4 00 00	1 15 56	30.208		32.5	35.0	Mean - - - 1 20 12.5
6 00 00	1 16 37	30.239	43.5	33.0	34.0	
8 00 00	1 17 43	30.239		33.0	35.0	
10 00 00	1 20 48	30.200		33.0	34.0	
Noon	1 20 35	30.196	40.0	32.5	33.0	
14 00 00	1 17 24	30.189		32 5	33.0	
16 00 00	1 19 04	30.250		34.0	40.0	
18 00 00	1 21 15	30.220	40.5	41.0	40.0	
20 00 00	1 24 06	30.200		42.0	41.0	
22 00 00	1 24 29	30.224		40.0	40.0	

JANUARY 16, 1841.

Mean time,* Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 35	30.264	46.0	38.0	40.0	Maximum at 0 hours - 1 21 35
2 00 00	1 18 26	30.278		36.0	39.0	Minimum at 16 hours - 1 16 02
4 00 00	1 20 21	30.320		36.0	38.0	Mean - - - 1 18 48.5
6 00 00	1 17 43	30 306	48.5	36.0	38.5	
8 00 00	1 16 40	30.318		36 0	38.0	
10 00 00	1 18 59	30.318		34.0	37.0	
Noon	1 18 59	30.330	46.0	34.0	38.0	
14 00 00	1 18 59	30.350		33.0	38.0	
16 00 00	1 16 02	30.364		37.5	37.0	
18 00 00	1 19 55	30.320	45.0	38.0	38.5	
20 00 00	1 21 25	30.250		39.0	38.5	
22 00 00	1 20 58	30.250		38.0	36.5	

JANUARY 17, 1841.

Mean time,* Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 19 56	30.214	44.5	36.0	38.0	Maximum at 20 hours - 1 22 41
2 00 00	1 19 53	30.200		36.0	40.0	Minimum at 16 hours - 1 17 10
4 00 00	1 19 52	30.150		36.0	40.0	Mean - - - 1 19 55.5
6 00 00	1 19 56	30.172	44.0	36.0	37.0	
8 00 00	1 19 56	30.000		35.0	37.0	
10 00 00	1 20 01	29.980		35.0	36.0	
Noon	1 19 24	29.934	45.0	36.0	37.0	
14 00 00	1 19 29	29.840		36.0	37.0	
16 00 00	1 17 10	29.814		37.0	39.0	
18 00 00	1 21 02	29.734	45.0	41.0	40.0	
20 00 00	1 22 41	29.714		44.0	42.0	
22 00 00	1 20 48	29.763		46 0	45.0	

OBSERVATIONS AT WASHINGTON—1841.

JANUARY 18, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 08	29.800	45.0	40.0	44.0	Maximum at 22 hours - 1 21 37
2 00 00	1 19 38	29.884		42.0	42.5	Minimum at 16 hours - 1 18 35
4 00 00	1 19 30	29.962		38.0	40.5	Mean - - - 1 20 06
6 00 00	1 20 11	30.038	45.0	33.5	37.0	
8 00 00	1 20 11	30.098		28.5	32.0	
10 00 00	1 19 49	30.206		24.0	28.0	
Noon	1 19 49	30.300	37.0	20.5	24.0	
14 00 00	1 20 07	30.410		18.0	30.0	
16 00 00	1 18 35	30.488		17.0	26.0	
18 00 00	1 20 47	30.500	34.0	17.0	25.0	
20 00 00	1 21 24	30.608		18.0	24.0	
22 00 00	1 21 37	30.600		17.0	23.0	

JANUARY 19, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 19 26	30.580	33.0	17.0	21.0	Maximum at 18 hours - 1 25 25
2 00 00	1 19 42	30.600		17.0	20.0	Minimum at 10 hours - 1 18 41
4 00 00	1 19 51	30.642		15.5	18.0	Mean - - - 1 22 03
6 00 00	1 20 03	30.650	32.0	15.0	17.0	
8 00 00	1 20 14	30.654		15.0	17.0	
10 00 00	1 18 41	30.662		14.0	16.0	
Noon	1 18 45	30.708	31.0	14.0	16.0	
14 00 00	1 21 33	30.758		13.5	18.0	
16 00 00	1 18 53	30.810		16.0	19.0	
18 00 00	1 25 25	30.780	31.0	20.0	22.0	
20 00 00	1 23 58	30.750		23.0	25.0	
22 00 00	1 22 49	30.731		23.0	25.0	

JANUARY 20, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 20 58	30.712	31.0	20.0	22.0	Maximum at 20 hours - 1 25 03
2 00 00	1 19 53	30.709		17.0	20.0	Minimum at 16 hours - 1 19 37
4 00 00	1 20 36	30.652		18.0	20.0	Mean - - - 1 22 20
6 00 00	1 20 35	30.652	31.0	18.0	20.0	
8 00 00	1 20 58	30.623		18.0	21.0	
10 00 00	1 21 35	30.591		17.0	20.0	
Noon	1 22 44	30.570	32.0	17.0	20.0	
14 00 00	1 24 15	30.561		17.5	20.0	
16 00 00	1 19 37	30.550		21.5	24.0	
18 00 00	1 22 36	30.450	32.0	23.0	24.0	
20 00 00	1 25 03	30.364		26.0	27.0	
22 00 00	1 23 59	30.340		28.0	32.0	

JANUARY 21, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 20	30.300	33.0	31.0	48.0	Maximum at 20 hours - 1 25 49
2 00 00	1 19 49	30.250		31.0	46.0	Minimum at 4 hours - 1 17 45
4 00 00	1 17 45	30.176		32.0	46.0	Mean - - - 1 21 47
6 00 00	1 20 39	30.100	40.5	33.0	46.0	
8 00 00	1 19 54	30.014		33.0	52.0*	
10 00 00	1 20 09	29.954		33.0	58.0	REMARKS.
Noon	1 19 50	29.908	40.5	34.0	60.0	
14 00 00	1 18 47	29.888		34.0	60.0	* Fire in the observatory in an earthen pan during the remainder of the day.
16 00 00	1 17 56	29.862		37.0	50.0	
18 00 00	1 20 44	29.826	38.5	38.0	50.0	
20 00 00	1 25 49	29.786		39.0	50.0	
22 00 00	1 23 54	29.800		35.0	50 0	

JANUARY 22, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 22 34	29.808	39.7	34.0	38.0	Maximum at 20 hours - 1 23 52
2 00 00	1 14 37	29.836		35.0	36.0	Minimum at 2 hours - 1 14 37
4 00 00	1 19 44	29.870		38.0	37.0	Mean - - - 1 19 14.5
6 00 00	1 20 14	29.906	40.5	37.0	37.0	
8 00 00	1 20 42	29.906		33.0	35 0	
10 00 00	1 21 39	29.912		32.0	34.0	
Noon	1 19 31	29.980	35.5	30.5	32.0	
14 00 00	1 18 29	30.000		32.0	33.0	
16 00 00	1 18 28	30.016		31.0	32.0	
18 00 00	1 21 57	29.992	36.0	33.5	34.0	
20 00 00	1 23 52	29 938		35.5	36.5	
22 00 00	1 21 20	29.970		33.5	37.0	

JANUARY 23, 1840.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 20 08	29.982	36.5	29.5	34.5	Maximum at 22 hours - 1 21 49
2 00 00	1 18 21	29.900		26.0	32.0	Minimum at 2 hours - 1 18 21
4 00 00	1 19 58	29.850		26 0	30.0	Mean - - - 1 20 05
6 00 00	1 20 25	29.830	38.0	27.5	30.0	
8 00 00	1 20 25	29.800		28.0	30.0	
10 00 00	1 20 11	29.800		28.0	30.0	
Noon	1 20 11	29.834	39.0	28.0	30.0	
14 00 00	1 19 30	29.868		29.0	31.0	
16 00 00	1 19 35	29.914		33.0	34.0	
18 00 00	1 21 30	29.878	41.0	36.0	38.0	
20 00 00	1 21 45	29.870		36.0	39.0	
22 00 00	1 21 49	29.864		35.0	38.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JANUARY 24, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 32	29.942	38.0	34.0	40.0	Maximum at 20 hours - 1 22 58
2 00 00	1 20 34	29.950		33.0	39.0	Minimum at 14 hours - 1 17 11
4 00 00	1 20 32	29.932		27.0	32.0	Mean - - - 1 20 04.5
6 00 00	1 20 44	29.930	38.0	25.0	30.0	
8 00 00	1 20 32	29.928		25.0	30.0	
10 00 00	1 20 26	29.920		25.0	30.0	
Noon	1 20 16	29.910	39.0	25.5	30.0	
14 00 00	1 17 11	29.850		32.0	34.0	
16 00 00	1 20 45	29.800		34.5	39.0	
18 00 00	1 22 14	29.709	41.0	38.0	40.0	
20 00 00	1 22 58	29.712		38.0	44.0	
22 00 00	1 19 24	29.753		3.00	34.0	
JANUARY 25, 1841.						
0 00 00	1 19 24	29.739	45.0	29.0	33.0	Maximum at 18 hours - 1 23 24
2 00 00	1 19 11	29.800		29.0	33.0	Minimum at 2 hours - 1 19 11
4 00 00	1 19 36	29.809		26.0	32.0	Mean - - - 1 21 17.5
6 00 00	1 19 44	29.817	43.5	26.0	33.0	
8 00 00	1 20 18	29.823		28.0	33.0	
10 00 00	1 19 42	29.837		29.0	34.0	
Noon	1 19 17	29.849	38.0	33.0	34.0	
14 00 00	1 20 38	29.900		35.0	36.0	
16 00 00	1 20 36	29.914		39.0	40.0	
18 00 00	1 23 24	29.884	52.0	45.5	46.0	
20 00 00	1 22 33	29.884		47.5	50.0	
22 00 00	1 22 12	29.884		47.0	50.0	
JANUARY 26, 1841.						
0 00 00	1 20 14	30.044	50.0	39.0	44.0	Maximum at 20 hours - 1 26 45
2 00 00	1 18 57	30.190		36.0	39.0	Minimum at 4 hours - 1 05 23
4 00 00	1 05 23	30.186		32.0	36.0	Mean - - - 1 16 04
6 00 00	1 12 41	30.190	43.5	30.0	35.0	
8 00 00	1 20 01	30.182		28.5	34.0	
10 00 00	1 19 10	30.188		27.5	31.0	
Noon	1 18 30	30.232	42.0	25.5	29.5	REMARKS.
14 00 00	1 19 36	30.288		27.5	36.0	
16 00 00	1 16 02	30.300		34.0	34.0	An aurora visible from 4*h.* to 6*h.* 30*m.* See extraordinary observations.
18 00 00	1 21 48	30.258	46.0	39.5	39.0	
20 00 00	1 26 45	30.184		41.5	44.0	
22 00 00	1 25 45	30.192		41.0	44.0	

JANUARY 27, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.				
			Attached.	Air.	Magnetic observatory.		
h. m. s.	° ′ ′	*Inches.*	°	°	°		° ′ ″
0 00 00	1 22 31	30.168	47.5	37.0	42.0	Max. at 20 and 22 hours	1 23 10
2 00 00	1 18 31	30.158		36.0	39.0	Minimum at 16 hours -	1 16 43
4 00 00	1 17 35	30.050		35.5	38.0	Mean - - - -	1 19 56.5
6 00 00	1 19 54	30.008	43.5	33.0	36.0		
8 00 00	1 22 44	30.000		33.0	36.0		
10 00 00	1 21 14	29.932		32.0	35.0		
Noon	1 20 31	29.934	43.0	33.5	38.0		
14 00 00	1 21 22	29.914		39.0	42.0		
16 00 00	1 16 43	29.900		44.0	43.0		
18 00 00	1 20 29	29.838	45.5	44.0	44.0		
20 00 00	1 23 10	29.816		44.5	46.0		
22 00 00	1 23 10	29.823		45.0	46.5		

JANUARY 28, 1841.

0 00 00	1 22 18	29.840	45.7	42.0	46.0	Maximum at 22 hours -	1 22 09
2 00 00	1 15 15	29.886		42.0	44.0	Minimum at 2 hours -	1 15 15
4 00 00	1 18 06	29.950		39.0	40.0	Mean - - - -	1 19 12
6 00 00	1 19 41	29.970	45.5	39.0	40.0		
8 00 00	1 19 11	30.000		36.0	38.0		
10 00 00	1 22 41	30.020		36.0	38.0		
Noon	1 22 41	30.050	45.0	35.0	38.0		
14 00 00	1 18 09	30.100		34.0	41.0		
16 00 00	1 17 44	30.160		40.0	42.0		
18 00 00	1 18 29	30.170	55.0	46.0	48.0		
20 00 00	1 22 58	30.150		51.0	52.0		
22 00 00	1 23 09	30.162		48.0	50.0		

JANUARY 29, 1841.

0 00 00	1 19 24	30.188	45.5	43.0	48.0	Maximum at 20 hours -	1 26 08
2 00 00	1 19 18	30.188		40.0	46.0	Minimum at 16 hours -	1 16 24
4 00 00	1 18 57	30.228		39.0	42.0	Mean - - - -	1 21 16
6 00 00	1 18 40	30.220	46.0	36.0	40.0		
8 00 00	1 18 20	30.210		36.0	40.0		
10 00 00	1 18 14	30.200		34.0	38.0		
Noon	1 18 27	30.150	43.0	36.0	39.0		
14 00 00	1 18 32	30.100		37.0	40.0		
16 00 00	1 16 24	30.050		37.0	41.0		
18 00 00	1 21 32	29.950	45.0	39.0	40.0		
20 00 00	1 26 08	29.858		42.0	42.0		
22 00 00	1 25 57	29.891		40.0	42.0		

OBSERVATIONS AT WASHINGTON—1841.

JANUARY 30, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 59	29.939	45.5	38.0	41.0	Maximum at 20 hours - 1 24 17
2 00 00	1 20 37	29.982		36.0	40.0	Minimum at 16 hours - 1 18 54
4 00 00	1 20 15	30.039		35.0	38.0	Mean - - - 1 21 35.5
6 00 00	1 20 03	30.072	46.0	35.0	38.0	
8 00 00	1 19 40	30.097		35.0	36.0	
10 00 00	1 19 18	30.097		35.0	36.0	
Noon	1 19 28	30.111	47.0	35.0	36.0	
14 00 00	1 18 55	30.129		35 0	36.0	
16 00 00	1 18 54	30.150		41.5	42.0	
18 00 00	1 22 30	30.150	52.0	42.5	42.0	
20 00 00	1 24 17	30.128		42.5	42.0	
22 00 00	1 23 03	30.128		44.5	44.0	

JANUARY 31, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 23	30.124	49.0	42.5	42.0	Maximum at 20 hours - 1 32 12
2 00 00	1 19 24	30.124		38.5	40.0	Minimum at 14 hours - 1 16 29
4 00 00	1 19 09	30.226		35.5	38.0	Mean - - - 1 24 20.5
6 00 00	1 17 39	30.226	46.0	34.0	36.0	
8 00 00	1 18 59	30.194		31.5	33.0	
10 00 00	1 19 29	30.164		29.0	33.0	REMARKS.
Noon	1 18 53	30.164	46.5	29.5	32.0	
14 00 00	1 16 29	30.144		31.0	40 0	Changed the barometer at 4*h*.
16 00 00	1 19 05	30.176		36.5	36.0	
18 00 00	1 23 16	30.136	45.5	41.5	40.0	
20 00 00	1 32 12	30.058		40.5	40.0	
22 00 00	1 30 09	30.041		39.0	40.0	

FEBRUARY 1, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 25 18	30.041	45.5	36.5	38.0	Maximum at 0 hours - 1 25 18
2 00 00	1 21 16	30.016		34.5	37.0	Minimum at 6 hours - 1 14 11
4 00 00	1 20 18	30.016		33.5	36.0	Mean - - - 1 19 44.5
6 00 00	1 14 11	29.919	45.0	35.0	36.0	
8 00 00	1 14 58	29.919		35.0	37.0	
10 00 00	1 20 17	29.917		35.0	37.0	
Noon	1 20 00	29.896	45.5	35.0	38 0	
14 00 00	1 16 42	29.859		38.0	41.0	
16 00 00	1 16 29	29.786		36.5	43.0	
18 00 00	1 21 03	29.646	45.0	36.0	38.0	
20 00 00	1 23 22	29.456		36.0	37.5	
22 00 00	1 20 33	29.416		37.0	38.0	

FEBRUARY 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.				
			Attached.	Air.	Magnetic observatory.		
h. m. s.	° ′ ″	*Inches.*	°	°	°		° ′ ″
0 00 00	1 20 09	29.406	45.5	36.0	37.0	Maximum at 20 hours -	1 23 30
2 00 00	1 19 55	29.499		34.5	38.0	Minimum at 14 hours -	1 17 39
4 00 00	1 19 55	29.596		35.0	38.0	Mean - - - -	1 20 34.5
6 00 00	1 19 55	29.656	46.5	35.0	37.0		
8 00 00	1 19 55	29.716		32.5	36.0		
10 00 00	1 19 55	29.756		33.5	33.0		
Noon	1 19 55	29.826	45.0	34.0	38.0		
14 00 00	1 17 39	29.846		35.0	35.0		
16 00 00	1 18 13	29.916		36.0	39.0		
18 00 00	1 21 37	29.916	46.5	41.0	41.0		
20 00 00	1 23 30	29.866		48.0	46.0		
22 00 00	1 22 15	29.856		47.0	48.0		

FEBRUARY 3, 1841.

0 00 00	1 21 09	29.856	47.0	42.0	46.0	Maximum at 20 hours -	1 22 33
2 00 00	1 21 09	29.836		38.0	42.0	Minimum at 16 hours -	1 18 23
4 00 00	1 19 14	29.836		36.5	40.0	Mean - - - -	1 20 28
6 00 00	1 19 14	29.816	46.0	36.0	40.0		
8 00 00	1 19 29	29.806		36.0	40.0		
10 00 00	1 22 09	29.806		36.0	40.0		
Noon	1 19 22	29.776	46.2	34.5	38.0		
14 00 00	1 18 42	29.776		33.0	40.0		
16 00 00	1 18 23	29.856		42.0	46.0		
18 00 00	1 20 52	29.866	47.0	45.0	47.0		
20 00 00	1 22 33	29.906		44.0	49.0		
22 00 00	1 22 10	30.066		44.0	48.0		

FEBRUARY 4, 1841.

0 00 00	1 20 24	30.086	48.0	38.0	42.0	Maximum at 20 hours -	1 24 17
2 00 00	1 19 59	30.016		34.0	38.0	Minimum at 16 hours -	1 17 58
4 00 00	1 19 59	30.176		31.0	33.0	Mean - - - -	1 21 07.5
6 00 00	1 19 24	30.186	46.5	30.0	32.0		
8 00 00	1 19 36	30.191		29.0	32.0		
10 00 00	1 19 44	30.211		29.0	31.0		
Noon	1 19 14	30.236	44.5	28.0	31.0		
14 00 00	1 18 33	30.376		26.5	30.0		
16 00 00	1 17 58	30.376		31.5	31.0		
18 00 00	1 22 34	30.356	44.5	35.5	37.0		
20 00 00	1 24 17	30.266		37.0	40.0		
22 00 00	1 21 28	30.266		36.0	41.0		

OBSERVATIONS AT WASHINGTON—1841.

FEBRUARY 5, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 32	30.256	44.5	32.0	36.0	Maximum at 22 hours - 1 23 21
2 00 00	1 20 27	30.256		30.0	33.0	Minimum at 16 hours - 1 17 17
4 00 00	1 19 23	30.236		28.0	31.0	Mean - - - - 1 20 19
6 00 00	1 19 31	30.206	43.0	25.0	29.0	
8 00 00	1 18 53	30.176		23.5	27.0	
10 00 00	1 18 08	30.146		23.0	26.0	
Noon	1 19 39	30.146	41.5	27.0	29.0	
14 00 00	1 17 37	30.126		28.0	37.0	
16 00 00	1 17 17	30.136		31.0	34.0	
18 00 00	1 21 46	30.076	43.5	35.0	39.0	
20 00 00	1 23 06	30.026		38.0	44.0	
22 00 00	1 23 21	30.000		40.0	46.0	

FEBRUARY 6, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 20 27	30.000	44.5	35.0	42.0	Maximum at 20 hours - 1 21 54
2 00 00	1 20 06	29.986		33.0	38.0	Minimum at 16 hours - 1 16 31
4 00 00	1 19 05	29.986		31.5	36.0	Mean - - - - 1 19 12.5
6 00 00	1 18 28	29.966	43.0	30.0	35.0	
8 00 00	1 18 17	29.960		29.0	33.0	
10 00 00	1 18 34	29.966		29.5	32.0	
Noon	1 18 40	29.966	42.5	30.0	32.0	
14 00 00	1 17 14	29.966		31.0	32.0	
16 00 00	1 16 31	29.986		38.0	39.0	
18 00 00	1 18 09	29.986	43.0	39.0	40.0	
20 00 00	1 21 54	29.956		41.5	44.0	
22 00 00	1 21 25	29.956		41.5	42.0	

FEBRUARY 7, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 19 36	30.016	45.0	38.7	42.0	Maximum at 14 hours - 1 29 59
2 00 00	1 18 56	30.036		35.0	39.0	Minimum at 10 hours - 1 02 26
4 00 00	1 20 00	30.056		32.5	37.0	Mean - - - - 1 16 12.5
6 00 00	1 16 35	30.056	47.0	34.0	36.0	
8 00 00	1 12 48	30.056		34.0	36.0	
10 00 00	1 02 26	30.066		34.0	36.0	REMARKS.
Noon	1 14 24	30.096	43.5	35.0	37.0	
14 00 00	1 29 59	30.136		34.0	38.0	See extraordinary observations.
16 00 00	1 21 25	30.166		34.0	42.0	
18 00 00	1 27 36	30.156	46.0	35.0	38.0	
20 00 00	1 21 46	30.136		35.0	38.0	
22 00 00	1 20 13	30.136		35.0	38.0	

FEBRUARY 8, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 40	30.176	47.0	34.0	37.0	Maximum at 14 hours - 1 23 54
2 00 00	1 19 30	30.186		33.0	36.0	Minimum at 6 hours - 1 12 37
4 00 00	1 12 54	30.206		33.0	36.0	Mean - - - - 1 18 15.5
6 00 00	1 12 37	30.216	46.0	33.0	35.0	
8 00 00	1 20 06	30.236		33.0	34.0	
10 00 00	1 20 25	30.246		30.0	32.0	
Noon	1 21 59	30.256	44.0	30.0	31.0	
14 00 00	1 23 54	30.286		30.0	31.0	
16 00 00	1 16 46	30.366		34.0	34.0	
18 00 00	1 22 34	30.336	44.0	36.0	39.0	
20 00 00	1 22 02	30.236		38.0	46.0	
22 00 00	1 21 43	30.276		41.0	46.0	

FEBRUARY 9, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 18 48	30.276	44.5	36.0	42.0	Maximum at 14 hours - 1 28 03
2 00 00	1 19 04	30.266		30.0	38.0	Minimum at 12 hours - 1 13 05
4 00 00	1 19 16	30.246		30.0	34.0	Mean - - - - 1 20 34
6 00 00	1 20 14	30.206	44.0	30.0	34.0	
8 00 00	1 20 50	30.166		32 0	34.0	
10 00 00	1 15 41	30.146		32.0	34.0	
Noon	1 13 05	30.086	43.0	32.0	34.0	
14 00 00	1 28 03	30.036		33.0	44.0	
16 00 00	1 16 51	30.036		35.0	42.0	
18 00 00	1 21 32	29.946	43.5	39.0	37.0	
20 00 00	1 24 25	29.896		42.0	39.0	
22 00 00	1 22 41	29.876		36.0	38.0	

FEBRUARY 10, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 41	29.876	44.5	35.5	37.0	Maximum at 22 hours - 1 22 44
2 00 00	1 21 04	29.926		31.0	35.0	Minimum at 16 hours - 1 15 59
4 00 00	1 20 22	29.926		33.0	33.0	Mean - - - - 1 19 21.5
6 00 00	1 19 44	29.936	45.0	31.0	33.0	
8 00 00	1 18 53	29.936		31.0	32.0	
10 00 00	1 19 14	29.966		28.0	31.0	
Noon	1 19 02	29.966	44.0	27.0	30.0	
14 00 00	1 18 30	29.976		27.0	30.0	
16 00 00	1 15 59	29.946		34.5	35.0	
18 00 00	1 18 38	29.926	44.5	36.5	38.0	
20 00 00	1 19 25	29.936		31.5	36.0	
22 00 00	1 22 44	29.936		30.5	35.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
			FEBRUARY 11, 1841.			
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 19 25	30.026	43.5	26.0	30.0	Maximum at 22 hours - 1 22 47
2 00 00	1 19 22	30.036		23.0	28.0	Minimum at 16 hours - 1 15 13
4 00 00	1 19 27	30.076		21.0	25.0	Mean - - - 1 19 00
6 00 00	1 20 05	30.106	42.0	20.0	24.0	
8 00 00	1 20 02	30.056		19.0	23.0	
10 00 00	1 19 25	30 056		15.0	20.0	
Noon	1 19 18	30.066	40.5	14.5	19.0	
14 00 00	1 19 18	30.066		15.0	20.0	
16 00 00	1 15 13	30.056		19.0	24.0	
18 00 00	1 19 47	29.996	35.0	22.5	28.0	
20 00 00	1 22 40	29.946		24.0	27.0	
22 00 00	1 22 47	29.966		18.0	22.0	
			FEBRUARY 12, 1841.			
0 00 00	1 21 02	30.096	33.0	12.0	17.0	Maximum at 22 hours - 1 24 48
2 00 00	1 20 04	30.076		10.0	14 0	Minimum at 4 hours - 1 16 48
4 00 00	1 16 48	30.096		6.5	12.0	Mean - - - 1 20 48
6 00 00	1 19 36	30.096	28.5	8.0	11.0	
8 00 00	1 20 06	30.096		8.0	10.0	
10 00 00	1 23 12	30.076		8.0	10.0	
Noon	1 19 16	30.076	27.0	7.5	10.0	
14 00 00	1 18 12	30.076		9.0	11.0	
16 00 00	1 17 24	30.076		14.5	17.0	
18 00 00	1 21 16	30.026	27.5	16.5	18.0	
20 00 00	1 24 23	29.966		17.0	18.0	
22 00 00	1 24 48	29.966		16.5	18.0	
			FEBRUARY 13, 1841.			
0 00 00	1 20 39	29.976	26.5	14.5	16.0	Maximum at 8 hours - 1 24 27
2 00 00	1 18 47	30.006		13.0	14.5	Minimum at 16 hours - 1 16 43
4 00 00	1 20 00	30.026		12.5	13.0	Mean - - - 1 20 34.5
6 00 00	1 20 56	30.026	25.0	12.5	13.0	
8 00 00	1 24 27	30.026		12.5	13.0	
10 00 00	1 18 54	30.026		10.0	10.5	
Noon	1 19 44	30.036	23.5	8.5	10.0	
14 00 00	1 19 39	30.016		12.0	14.0	
16 00 00	1 16 43	30.016		15.0	17.0	
18 00 00	1 19 08	30.016	29.0	19.0	23.0	
20 00 00	1 22 11	29.986		22.0	26.0	
22 00 00	1 22 11	29.976		23.0	28.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
FEBRUARY 14, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 08	29.976	27.0	20.0	24.0	Maximum at 20 hours - 1 23 16
2 00 00	1 20 29	29.966		15.0	20.0	Minimum at 16 hours - 1 16 25
4 00 00	1 19 58	29.966		15.0	19.0	Mean - - - 1 19 50.5
6 00 00	1 19 40	29.946	25.0	14.0	18.0	
8 00 00	1 19 14	29.926		12.0	13.0	
10 00 00	1 19 05	29.886		10.0	12.0	
Noon	1 19 05	29.886	21.0	12.0	16.0	
14 00 00	1 19 40	29.876		14.0	18.0	
16 00 00	1 16 25	29.896		21.0	22.0	
18 00 00	1 19 27	29.876	29.5	22.5	29.0	
20 00 00	1 23 16	29.836		24.5	33.0	
22 00 00	1 22 56	29.856		25.0	31.0	
FEBRUARY 15, 1841.						
0 00 00	1 21 49	29.856	30.0	21.5	27.0	Maximum at 20 hours - 1 26 42
2 00 00	1 20 50	29.846		19.5	22.0	Minimum at 12 hours - 1 17 39
4 00 00	1 19 30	29.856		18.5	20.0	Mean - - - 1 22 10.5
6 00 00	1 20 15	29.876	27.0	18.5	19.5	
8 00 00	1 20 26	29.876		17.5	18.0	
10 00 00	1 19 51	29.886		17.7	18.0	
Noon	1 17 39	29.936		16.0	20.0	
14 00 00	1 25 18	29.956		18.0	34.0	
16 00 00	1 21 48	29.996		21.0	24.0	
18 00 00	1 21 19	30.016	30.0	23.0	28.0	
20 00 00	1 26 42	29.996		24.5	29.0	
22 00 00	1 21 24	30.036		24.5	29.0	
FEBRUARY 16, 1841.						
0 00 00	1 22 24	29.958	29.5	22.5	27.0	Maximum at 22 hours - 1 25 58
2 00 00	1 18 07	29.964		21.0	24.0	Minimum at 14 hours - 1 16 46
4 00 00	1 18 24	29.964		21.0	24.0	Mean - - - 1 21 22
6 00 00	1 20 37	29.986	28.0	20.5	23.5	
8 00 00	1 20 05	30.012		20.0	23.0	
10 00 00	1 21 55	29.982		20.0	24.0	REMARKS.
Noon	1 21 55	29.982	26.0	19.0	23.0	
14 00 00	1 16 46	29.974		23.0	26.0	The barometer, whose frame was broken, having been repaired, began using it at 0*h*.
16 00 00	1 19 33	29.968		29.7	32.0	
18 00 00	1 24 46	29.900	33.0	35.0	38.0	
20 00 00	1 25 14	29.820		37.0	40.0	
22 00 00	1 25 58	29.780		40.0	41.0	

FEBRUARY 17, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 23 30	29.764	34.0	32.5	38.0	Maximum at 0 hours - 1 23 30
2 00 00	1 21 50	29.784		32.0	35.0	Minimum at 4 hours - 1 14 46
4 00 00	1 14 46	29.650		33.0	35.0	Mean - - - 1 19 08
6 00 00	1 15 53	29.650	34.0	32.5	34.0	
8 00 00	1 19 54	29.614		32.5	35.0	
10 00 00	1 19 02	29.572		32.5	34.0	
Noon	1 19 02	29.564	35.0	30.0	33.0	
14 00 00	1 15 56	29.564		32.0	38.0	
16 00 00	1 17 43	29.574		40.0	41.0	
18 00 00	1 21 57	29.602	38.0	41.0	42.0	
20 00 00	1 23 09	29.602		39.0	44.0	
22 00 00	1 21 25	29.624		43.0	46.0	

FEBRUARY 18, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 19 49	29.704	38.0	40.0	43.0	Maximum at 22 hours - 1 22 44
2 00 00	1 18 50	29.778		36.0	39.5	Minimum at 14 hours - 1 16 23
4 00 00	1 18 28	29.810		37.0	38.0	Mean - - - 1 19 33.5
6 00 00	1 19 49	29.838	38.0	36.5	37.0	
8 00 00	1 20 44	29.868		34.0	37.0	
10 00 00	1 18 16	29.894		34.5	36.0	
Noon	1 18 36	29.992	38.0	33.0	36.0	
14 00 00	1 16 23	30.042		32.0	40.0	
16 00 00	1 18 44	30.051		36.0	37.0	
18 00 00	1 21 30	30.006	40.0	40.0	42.0	
20 00 00	1 21 30	29.958		40.0	42.0	
22 00 00	1 22 44	29.900		42.0	42.0	

FEBRUARY 19, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 10	29.920	39.0	39.0	40.0	Maximum at 22 hours - 1 22 19
2 00 00	1 20 46	29.868		37.0	38.0	Min. at 14 and 16 hrs. - 1 18 00
4 00 00	1 20 34	29.867		29.0	33.0	Mean - - - 1 20 09.5
6 00 00	1 20 01	29.832	39.0	28.0	32.0	
8 00 00	1 19 25	29.761		27.0	31.0	
10 00 00	1 19 04	29.748		26.5	31.0	
Noon	1 18 45	29.690	39.5	27.0	29.0	
14 00 00	1 18 00	29.624		28.0	28.0	
16 00 00	1 18 00	29.568		34.0	34.0	
18 00 00	1 21 25	29.550	43.0	37.5	36.0	
20 00 00	1 21 46	29.550		43.5	43.0	
22 00 00	1 22 19	29.650		42.0	44.0	

FEBRUARY 20, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 01	29.724	43.0	37.5	41.0	Maximum at 20 hours - 1 24 57
2 00 00	1 21 02	29.810		35.5	37.0	Minimum at 14 hours - 1 16 23
4 00 00	1 19 38	29.810		33.5	35.0	Mean - - - 1 20 40
6 00 00	1 19 21	29.796	42.5	31.5	33.0	
8 00 00	1 19 36	29.810		29.5	31.0	
10 00 00	1 17 55	29.816		28.5	30.0	
Noon	1 18 36	29.806	40.0	27.5	29.0	
14 00 00	1 16 23	29.826		30.5	33.0	
16 00 00	1 18 22	29.824		37.5	40.0	
18 00 00	1 18 44	29.732	43.0	44.0	50.0	
20 00 00	1 24 57	29.684		47.0	54.0	
22 00 00	1 22 02	29.650		50.0	56.0	

FEBRUARY 21, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 20 28	29.644	43.5	50.0	46.0	Maximum at 20 hours - 1 23 56
2 00 00	1 19 45	29.644		46.0	35.0	Minimum at 16 hours - 1 15 44
4 00 00	1 18 18	29.612		40.0	32.5	Mean - - - 1 19 50
6 00 00	1 17 58	29.610	44.0	38.0	32.0	
8 00 00	1 17 39	29.550		36.0	31.5	
10 00 00	1 17 46	29.540		26.0	24.0	
Noon	1 17 19	29.530	42.0	26.0	23.5	
14 00 00	1 16 16	29.504		29.0	27.0	
16 00 00	1 15 44	29.500		38.0	38.0	
18 00 00	1 20 56	29.436	44.0	48.0	48.5	
20 00 00	1 23 56	29.400		55.0	52.5	
22 00 00	1 21 44	29.372		53.0	51.0	

FEBRUARY 22, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 20 30	29.428	46.5	45.5	52.0	Max. at 20 and 22 hrs. - 1 23 11
2 00 00	1 20 11	29.442		43.0	47.0	Minimum at 14 hours - 1 15 07
4 00 00	1 20 11	29.442		41.0	45.0	Mean - - - 1 19 09
6 00 00	1 20 11	29.442	46.0	41.0	44.0	
8 00 00	1 19 50	29.442		34.0	41.0	
10 00 00	1 19 50	29.450		31.0	39.0	
Noon	1 17 09	29.500	45.0	31.0	36.0	
14 00 00	1 15 07	29.540		32.5	40.0	
16 00 00	1 18 41	29.550		43.5	44.0	
18 00 00	1 21 43	29.552	47.0	48.5	52.0	
20 00 00	1 23 11	29.500		50.0	56.0	
22 00 00	1 23 11	29.500		52.0	59.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
						FEBRUARY 23, 1841.
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 31 29	29.500	49.5	45.0	52.0	Maximum at 0 hours - 1 31 29
2 00 00	1 18 54	29.500		35.0	50.5	Minimum at 12 hours - 1 18 07
4 00 00	1 19 49	29.500		34.0	42.0	Mean - - - 1 24 48
6 00 00	1 20 20	29.466	50.5	32.0	38.0	
8 00 00	1 20 38	29.410		31.5	37.0	
10 00 00	1 20 38	29.410		31.0	37.0	REMARKS.
Noon	1 18 07	29.360	48.0	30.5	38.0	
14 00 00	1 18 50	29.350		36.0	43.0	See extraordinary observations.
16 00 00	1 18 13	29.351		45.0	46.0	
18 00 00	1 24 22	29.351	50.5	57.0	60.0	
20 00 00	1 30 30	29.400		62.0	62.0	
22 00 00	1 26 35	29.500		59.0	59.0	
						FEBRUARY 24, 1841.
0 00 00	1 22 05	29.658	50.5	44.0	49.0	Maximum at 20 hours - 1 24 45
2 00 00	1 14 17	29.750		40.0	44.0	Minimum at 2 hours - 1 14 17
4 00 00	1 15 26	29.800		38.0	42.0	Mean - - - 1 19 31
6 00 00	1 17 36	29.847	49.0	34.0	37.0	
8 00 00	1 19 33	29.886		32.0	35 0	
10 00 00	1 21 28	29.907		31.0	34.0	
Noon	1 20 58	29.983	49.0	27.0	32.0	
14 00 00	1 18 34	30.056		26.0	30.0	
16 00 00	1 20 07	30.066		25.0	29.0	
18 00 00	1 23 48	30.066	46.0	24.0	30.0	
20 00 00	1 24 45	30.032		26.0	29.0	
22 00 00	1 22 27	30.000		27.0	32.0	
						FEBRUARY 25, 1841.
0 00 00	1 19 24	30.050	44.5	23.0	32.0	Max. at 18 and 20 hrs. - 1 24 49
2 00 00	1 20 00	30.074		18.0	26.0	Minimum at 10 hours - 1 16 58
4 00 00	1 17 40	30.076		16.0	20.0	Mean - - - 1 20 53.5
6 00 00	1 17 27	30.072	45.0	16.0	20.0	
8 00 00	1 17 22	30.064		16.0	20.0	
10 00 00	1 16 58	30.140		15.0	18.0	
Noon	1 17 16	30.150	41.0	18.0	16.5	
14 00 00	1 17 23	30.150		22.0	18.0	
16 00 00	1 20 21	30.170		34.5	30.0	
18 00 00	1 24 49	30.150	41.0	39.5	32.0	
20 00 00	1 24 49	30.088		40.0	35.0	
22 00 00	1 21 28	30.088		39.5	36.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
FEBRUARY 26, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 17	30.070	42.5	33.0	36.0	Maximum at 20 hours - 1 24 26
2 00 00	1 14 24	30.070		31.5	34.0	Minimum at 2 hours - 1 14 24
4 00 00	1 19 12	30.070		31.5	34.0	Mean - - - - 1 19 25
6 00 00	1 21 00	30.070	44.0	31.0	33.5	
8 00 00	1 21 00	30.016		30.0	32.0	
10 00 00	1 22 28	30.000		30.0	32.0	
Noon	1 15 06	30.000	42.0	32.0	34.0	
14 00 00	1 20 35	30.006		33.5	36.0	
16 00 00	1 15 14	30.012		39.5	44.0	
18 00 00	1 22 46	29.992	43.0	46.0	47.5	
20 00 00	1 24 26	29.960		52.0	52.0	
22 00 00	1 21 58	29.900		50.0	51.0	
FEBRUARY 27, 1841.						
0 00 00	1 22 14	29.891	46.0	42.0	54.5	Maximum at 20 hours - 1 25 34
2 00 00	1 18 16	29.874		40.5	53.0	Minimum at 14 hours - 1 15 28
4 00 00	1 06 54	29.740		41.0	52.0	Mean - - - - 1 20 31
6 00 00	1 19 05	29.700	46.5	41.0	51.0	
8 00 00	1 20 30	29.600		42.0	50.0	
10 00 00	1 19 41	29.600		43.0	51.0	
Noon	1 18 03	29.580	45 0	43.0	51.0	
14 00 00	1 15 28	29.574		44.0	51.0	
16 00 00	1 16 37	29.564		45.0	51.0	
18 00 00	1 22 03	29.590	49.0	50.0	51.0	
20 00 00	1 25 34	29.660		50.0	51.0	
22 00 00	1 22 42	29.678		50.5	53.0	
FEBRUARY 28, 1841.						
0 00 00	1 20 46	29.714	48.5	46.0	50.0	Maximum at 22 hours - 1 25 34
2 00 00	1 16 57	29.720		42.0	45.0	Minimum at 10 hours - 1 16 37
4 00 00	1 20 25	29.812		40.0	45.0	Mean - - - - 1 21 05.5
6 00 00	1 17 12	29.820	47.0	36.0	40.0	
8 00 00	1 16 52	29.890		36.0	40.0	
10 00 00	1 16 37	29.920		33.0	36.0	
Noon	1 17 47	29.900	45.0	32.0	33 0	
14 00 00	1 18 05	29.898		35.0	34.0	
16 00 00	1 18 33	29.960		45.0	49.0	
18 00 00	1 21 08	29.927	49.0	50.0	52.0	
20 00 00	1 24 06	29.870		54.0	56.0	
22 00 00	1 25 34	29.838		54.0	59.0	

OBSERVATIONS AT WASHINGTON—1841.

MARCH 1, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 11	29.850	50.5	48.0	50.0	Maximum at 22 hours - 1 23 55
2 00 00	1 22 06	29.864		45.0	49.0	Minimum at 12 hours - 1 19 31
4 00 00	1 20 51	29.841		41.0	45.0	Mean - - - 1 21 43
6 00 00	1 20 04	29.820	50.5	37.0	42.0	
8 00 00	1 19 57	29.794		36.0	40.0	
10 00 00	1 19 46	29.760		35.0	40.0	
Noon	1 19 31	29.720	50.0	35.0	39.0	
14 00 00	1 22 18	29.772		34.0	38.0	
16 00 00	1 20 28	29.800		49.5	49.0	
18 00 00	1 22 31	29.800	52.0	54.0	54.0	
20 00 00	1 22 31	29.780		58.0	60.0	
22 00 00	1 23 55	29.780		60.0	62.0	

MARCH 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 41	29.800	53.0	51.5	57.0	Maximum at 20 hours - 1 23 49
2 00 00	1 20 24	29 842		44.0	50.0	Minimum at 14 hours - 1 16 14
4 00 00	1 19 49	29.842		38.0	44.0	Mean - - - 1 20 01.5
6 00 00	1 19 25	29.834	52.0	34.0	41.0	
8 00 00	1 20 41	29.834		32.0	38.0	
10 00 00	1 19 54	29.834		31.0	36.0	
Noon	1 19 40	29.834	50.0	29.0	34.0	
14 00 00	1 16 14	29.878		35.0	41.0	
16 00 00	1 19 32	29.880		45.0	44.0	
18 00 00	1 22 42	29.850	52.5	57.5	54.0	
20 00 00	1 23 49	29.814		61.0	60.0	
22 00 00	1 22 50	29.818		55.5	60.0	

MARCH 3, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 22 50	29.818	55.0	49.5	54.0	Maximum at 20 hours - 1 25 49
2 00 00	1 21 19	29.780		45.0	49.0	Minimum at 14 hours - 1 16 20
4 00 00	1 20 15	29.776		43.0	46.0	Mean - - - 1 21 04.5
6 00 00	1 20 15	29.750	55.0	40.0	44.0	
8 00 00	1 20 15	29.750		40.0	44.0	
10 00 00	1 22 06	29.750		39.5	43.0	
Noon	1 18 43	29.700	45.0	39.0	40.0	
14 00 00	1 16 20	29.700		43.0	40.0	
16 00 00	1 19 47	29.730		46.5	47.0	
18 00 00	1 23 22	29.686	52.0	50.0	52.0	
20 00 00	1 25 49	29.632		53.5	58.0	
22 00 00	1 23 24	29.642		53.0	57.0	

MARCH 4, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 25 01	29.668	55.0	47.0	54.5	Maximum at 0 hours - 1 25 01
2 00 00	1 23 12	29.700		44.0	52 0	Minimum at 14 hours - 1 16 35
4 00 00	1 21 25	29.700		42.0	44.0	Mean - - - - 1 20 48
6 00 00	1 21 25	29.728	55.0	36.0	44.0	
8 00 00	1 20 48	29.750		34.0	38.0	
10 00 00	1 18 51	29.780		29.5	35.0	
Noon	1 18 51	29.830	54.5	34.0	34.0	
14 00 00	1 16 35	29.936		39.0	44.0	
16 00 00	1 18 21	29 974		40.0	42.0	
18 00 00	1 19 32	29.972	50.5	42.0	44.0	
20 00 00	1 23 19	29.950		47.0	50.0	
22 00 00	1 22 32	29.950		46.0	49.0	

MARCH 5, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 39	30.000	50.5	43.0	46.0	Max. at 18 and 20 hours 1 24 37
2 00 00	1 21 48	30.016		41.0	44.0	Minimum at 14 hours - 1 18 38
4 00 00	1 21 26	30.088		40.5	43.0	Mean - - - - 1 21 37.5
6 00 00	1 20 25	30.126	50.0	39.0	42.0	
8 00 00	1 19 30	30.176		27.0	37.0	
10 00 00	1 19 18	30.180		26.0	31.0	
Noon	1 18 56	30.195	45.0	25.0	29.0	
14 00 00	1 18 38	30.220		25.0	28.0	
16 00 00	1 21 20	30.350		27.0	28.0	
18 00 00	1 24 37	30.350	46.0	28.0	30.0	
20 00 00	1 24 37	30.300		30.0	32.0	
22 00 00	1 23 36	30.286		26.0	30.0	

MARCH 6, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 59	30.250	43.5	25.0	30.0	Maximum at 18 hours - 1 25 08
2 00 00	1 20 50	30.228		25.0	30.0	Minimum at 14 hours - 1 17 10
4 00 00	1 21 35	30,224		25 0	29.0	Mean - - - - 1 21 09
6 00 00	1 21 22	30.200	43.0	25.0	29.0	
8 00 00	1 20 33	30.140		24.0	28.0	
10 00 00	1 19 20	30.063		22.0	28.0	REMARKS.
Noon	1 19 12	30.020	42.0	22.0	28.0	
14 00 00	1 17 10	29.970		22.0	28.0	At 23*h*., violent thunder and lightning. No perceptible effect on the needle.
16 00 00	1 20 45	29.800		32.0	32.0	
18 00 00	1 25 08	29 600	43.5	31.0	34.0	
20 00 00	1 24 43	29.414		36.0	36 0	
22 00 00	1 22 56	29.380		39.0	39.0	

MARCH 7, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 31	29.100	45.0	41.0	42.0	Maximum at 20 hours - 1 24 04
2 00 00	1 21 44	29.130		40.0	38.0	Minimum at 14 hours - 1 13 59
4 00 00	1 15 36	29.210		37.0	35.0	Mean - - - 1 19 01.5
6 00 00	1 20 42	29.288	45.0	36.0	36.0	
8 00 00	1 19 57	29.342		34.0	37.0	
10 00 00	1 19 49	29.416		34.0	35.0	
Noon	1 16 15	29.444	43.5	34.0	35.0	
14 00 00	1 13 59	29.460		35.5	44.0	
16 00 00	1 20 06	29.476		42.0	46.0	
18 00 00	1 23 45	29.450	46.0	44.0	51.0	
20 00 00	1 24 04	29.360		52.0	52.0	
22 00 00	1 22 17	29.316		48.0	50.0	

MARCH 8, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 20	29.308	46.5	44.0	48.0	Maximum at 20 hours - 1 23 45
2 00 00	1 20 33	29.410		39.0	46.0	Minimum at 14 hours - 1 15 59
4 00 00	1 20 33	29.468		35.0	42.0	Mean - - - 1 19 52
6 00 00	1 21 15	29.486	47.0	34.0	39.0	
8 00 00	1 21 08	29.500		34.0	38.0	
10 00 00	1 16 52	29.560		34.0	38.0	
Noon	1 18 38	29.570	47.0	37.0	39.0	
14 00 00	1 15 59	29.650		38.5	43.0	
16 00 00	1 18 21	29.710		39.0	42.0	
18 00 00	1 23 08	29.786	47.0	41.0	43.0	
20 00 00	1 23 45	29.752		41.0	42.0	
22 00 00	1 21 41	29.788		41.0	42.0	

MARCH 9, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 19 27	29.860	46.5	38.0	39.0	Maximum at 20 hours - 1 23 33
2 00 00	1 20 54	29.890		38.0	38.0	Minimum at 14 hours - 1 16 42
4 00 00	1 20 26	29.960		35.5	37.0	Mean - - - 1 20 07.5
6 00 00	1 19 33	30.000	46.0	35.0	36.0	
8 00 00	1 19 19	30.020		32.0	34.0	
10 00 00	1 17 49	30.120		32.0	34.0	
Noon	1 17 28	30.140	44.0	32.0	34.0	
14 00 00	1 16 42	30.150		33.0	34.0	
16 00 00	1 20 15	30.175		38.0	40.0	
18 00 00	1 21 42	30.190	46.0	41.0	44.0	
20 00 00	1 23 33	30.184		42.5	46.0	
22 00 00	1 23 32	30.200		42.0	44.0	

MARCH 10, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 20	30.184	44.5	36.0	40.0	Maximum at 20 hours - 1 26 04
2 00 00	1 20 46	30.170		35.0	40.0	Minimum at 14 hours - 1 18 09
4 00 00	1 20 19	30.122		34.0	38.0	Mean - - - 1 22 06.5
6 00 00	1 20 19	30.100	44.0	33.0	36.0	
8 00 00	1 19 30	30.120		33.0	36.0	
10 00 00	1 19 43	30.112		33.0	34.0	
Noon	1 20 03	30.084	44.0	31.5	34.0	
14 00 00	1 18 09	30.054		34.0	36.0	
16 00 00	1 18 38	30.010		40.0	35.0	
18 00 00	1 23 07	29.962	45.0	36.0	36.0	
20 00 00	1 26 04	29.872		34.5	36.0	
22 00 00	1 24 34	29.806		34.5	35.0	

MARCH 11, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 19	29.842	44.0	33.5	37.0	Maximum at 20 hours - 1 25 07
2 00 00	1 21 01	29.820		34.0	35.0	Minimum at 14 hours - 1 17 35
4 00 00	1 21 01	29.836		34.0	35.0	Mean - - - 1 21 21
6 00 00	1 19 45	29.836	44.0	33.0	35.0	
8 00 00	1 21 25	29.870		33.0	35.0	
10 00 00	1 19 32	29.884		32.5	34.0	
Noon	1 19 10	29.980	43.5	32.5	34.0	
14 00 00	1 17 35	30.036		35.0	43.0	
16 00 00	1 17 46	30.060		41.0	42.0	
18 00 00	1 24 18	30.072	46.5	40.0	44.0	
20 00 00	1 25 07	30.072		41.5	48.0	
22 00 00	1 22 22	30.072		43.0	50.0	

MARCH 12, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 37	30.116	49.5	39.0	46.0	Maximum at 20 hours - 1 24 42
2 00 00	1 11 58	30.150		34.5	42.0	Minimum at 2 hours - 1 11 58
4 00 00	1 21 16	30.174		32.5	38.0	Mean - - - 1 18 20
6 00 00	1 21 16	30.160	49.0	33.0	36.0	
8 00 00	1 19 32	30.156		33.0	36.0	
10 00 00	1 20 38	30.150		32.0	35.0	
Noon	1 18 39	30.150	46.5	31.0	34.0	
14 00 00	1 18 49	30.150		30.0	31.0	
16 00 00	1 17 52	30.112		30.0	34.0	
18 00 00	1 22 26	30.050	45.0	30.0	33.0	
20 00 00	1 24 42	29.918		30.0	34.0	
22 00 00	1 21 42	29.800		30.0	34.0	

OBSERVATIONS AT WASHINGTON—1841.

MARCH 13, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	Inches.	°	°	°
0 00 00	1 20 46	29.650	45.0	30.0	34.0
2 00 00	1 20 33	29.500		31.0	34.0
4 00 00	1 21 30	29.442		30.0	34.0
6 00 00	1 19 31	29.402	45.0	29.0	33.0
8 00 00	1 23 25	29.290		29.0	32.0
10 00 00	1 20 33	29.276		30.0	33.0
Noon	1 19 16	29.310	43.5	30.0	34.0
14 00 00	1 17 05	29.372		34.0	35[illegible]
16 00 00	1 21 18	29.400		42.0	4[illegible]
18 00 00	1 25 18	29.400	45.5	42.0	44.0
20 00 00	1 23 40	29.375		45.0	46.0
22 00 00	1 22 48	29.400		42.0	44.0

° ′ ″
Maximum at 18 hours - 1 25 18
Minimum at 14 hours - 1 17 05
Mean - - - 1 21 11.5

MARCH 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 21 16	29.475	45.5	39.0	42.0
2 00 00	1 21 24	29.500		38.0	39.0
4 00 00	1 21 12	29.550		35.0	38.0
6 00 00	1 21 29	29.600	46.0	35.0	38.0
8 00 00	1 20 36	29.712		33.0	38.0
10 00 00	1 19 26	29.750		35.0	38.0
Noon	1 18 44	29.762	44.5	34.0	36.0
14 00 00	1 17 02	29.770		34.0	38.0
16 00 00	1 18 09	29.806		44.0	45.0
18 00 00	1 22 43	29.782	45.5	47.0	46.0
20 00 00	1 26 59	29.742		48.0	48.0
22 00 00	1 28 15	29.766		45.5	47.0

Maximum at 22 hours - 1 28 15
Minimum at 14 hours - 1 17 02
Mean - - - 1 22 38.5

MARCH 15, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 29 10	29.846	46.2	40.0	44.0
2 00 00	1 21 26	29.900		35.0	41.0
4 00 00	1 10 40	29.996		29.0	37.0
6 00 00	1 19 22	29.996	45.5	26.0	31.5
8 00 00	1 20 36	30.074		20.0	27.0
10 00 00	1 16 16	30.096		17.0	24.0
Noon	1 18 13	30.140	42.0	17.0	22 0
14 00 00	1 17 02	30.190		21.0	36.0
16 00 00	1 19 48	30.172		28.5	34.0
18 00 00	1 26 09	30.032	39.0	39.0	40.0
20 00 00	1 24 45	30.082		35.0	39.0
22 00 00	1 21 45	30.038		35.0	39.0

Maximum at 0 hours - 1 29 10
Minimum at 4 hours - 1 10 40
Mean - - - 1 19 55

MARCH 16, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 19 47	30.050	43.0	31.5	34.0	Maximum at 18 hours - 1 27 03
2 00 00	1 22 38	30.050		30.0	32.0	Minimum at 4 hours - 1 11 15
4 00 00	1 11 15	30.000		31.0	33.0	Mean - - - 1 19 09
6 00 00	1 21 16	29.954	43.0	31.5	33.0	
8 00 00	1 22 37	29.938		31.3	33.0	
10 00 00	1 20 29	29.908		30.0	32.0	
Noon	1 16 32	29.812	44.0	32.5	34.0	
14 00 00	1 14 57	29.800		35.5	38.0	
16 00 00	1 16 36	29.800		38.0	38 0	
18 00 00	1 27 03	29.838	43.0	38.0	39.0	
20 00 00	1 22 01	29.864		35.0	38.0	
22 00 00	1 19 23	29.972		30.0	34.0	

MARCH 17, 1841.

0 00 00	1 19 39	30.024	42.0	25.0	31.0	Maximum at 20 hours - 1 25 13
2 00 00	1 20 30	30.110		25.0	30.0	Minimum at 14 hours - 1 18 29
4 00 00	1 20 43	30.134		25.0	30.0	Mean - - - 1 21 51
6 00 00	1 20 38	30.140	41.0	25.0	30.0	
8 00 00	1 20 18	30 150		25.0	30.0	
10 00 00	1 19 52	30.150		23.0	28.0	
Noon	1 18 38	30.164	41.0	23.0	26.0	
14 00 00	1 18 29	30.174		23.0	26.0	
16 00 00	1 21 24	30.210		27.0	29.0	
18 00 00	1 24 09	30.200	40.0	25.0	30.0	
20 00 00	1 25 13	30.176		27.0	30.0	
22 00 00	1 24 03	30.176		26.0	30.0	

MARCH 18, 1841.

0 00 00	1 22 12	30.150	39.0	26.0	30.0	Maximum at 20 hours - 1 26 35
2 00 00	1 21 45	30.150		28.0	30.0	Minimum at 14 hours - 1 17 09
4 00 00	1 20 43	30.166		28.0	30.0	Mean - - - 1 21 52
6 00 00	1 22 19	30.056	38.0	27.0	30.0	
8 00 00	1 20 25	30.000		26.0	30.0	
10 00 00	1 19 33	29.964		26.0	30.0	
Noon	1 18 43	29.950	38.0	26.0	30.0	
14 00 00	1 17 09	29.900		28.0	30.0	
16 00 00	1 23 15	29.870		36.0	35.0	
18 00 00	1 26 01	29.866	38.5	37.5	38.0	
20 00 00	1 26 35	29.828		41.0	40.0	
22 00 00	1 23 45	29.842		39.5	39.5	

OBSERVATIONS AT WASHINGTON—1841.

MARCH 19, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 54	29.850	41.0	41.0	42.0	Maximum at 18 hours - 1 26 41
2 00 00	1 20 32	29.891		43.0	43.0	Minimum at 12 hours - 1 17 16
4 00 00	1 21 39	29.894		40.0	42.0	Mean - - - 1 21 58.5
6 00 00	1 21 19	29.894	42.0	37.0	39.5	
8 00 00	1 20 40	29.894		35.5	38.0	
10 00 00	1 18 32	29.970		33.0	36.0	
Noon	1 17 16	30.022	41.0	36.0	36.0	
14 00 00	1 17 40	30.056		42.0	48.0	
16 00 00	1 21 33	30.074		50.5	52[illegible]	
18 00 00	1 26 41	30.084	45.5	54.5	55.0	
20 00 00	1 26 24	30.050		60.0	59.0	
22 00 00	1 22 21	30.030		61.0	64.0	

MARCH 20, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 04	30.082	49.0	53.5	64.0	Maximum at 20 hours - 1 25 14
2 00 00	1 21 14	30.050		43.0	54.0	Minimum at 6 hours - 1 15 47
4 00 00	1 20 47	30.050		40.0	48.0	Mean - - - 1 20 30.5
6 00 00	1 15 47	30.024	49.0	39.0	45.0	
8 00 00	1 16 59	30.024		37.0	40.0	
10 00 00	1 20 19	30.000		34.0	38.0	
Noon	1 19 55	29.994	48.0	29.5	35.0	
14 00 00	1 19 39	29.994		37.0	44.0	
16 00 00	1 21 07	30.000		55.5	52.0	
18 00 00	1 25 00	29.978	49.5	64.0	64.0	
20 00 00	1 25 14	29.950		72.5	72.0	
22 00 00	1 23 54	29.898		71.5	74.0	

MARCH 21, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 16 12	29.968	52.5	69.0	70.0	Maximum at 20 hours - 1 26 31
2 00 00	1 21 20	29.978		57.0	62.0	Minimum at 14 hours - 1 15 59
4 00 00	1 19 25	30.000		55.0	58.0	Mean - - - 1 21 15
6 00 00	1 18 33	30.010	53.0	50.0	52.0	
8 00 00	1 19 20	30.020		50.0	45.0	
10 00 00	1 18 58	30.080		50.0	46.0	
Noon	1 17 25	30.095	55.0	50.0	47.0	
14 00 00	1 15 59	30.100		49.0	54.0	
16 00 00	1 18 08	30.184		55.0	60.0	
18 00 00	1 24 38	30.150	56.5	57.0	62.0	
20 00 00	1 26 31	30.132		59.0	64.0	
22 00 00	1 24 29	30.100		61.0	66.0	

MARCH 22, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.				
			Attached.	Air.	Magnetic observatory.		
h. m. s.	° ′ ″	*Inches.*	°	°	°		° ′ ″
0 00 00	1 23 39	30.110	59.0	57.0	63.0	Maximum at 20 hours -	1 28 46
2 00 00	1 19 32	30.164		47.0	56.0	Minimum at 14 hours -	1 09 16
4 00 00	1 20 20	30.150		42.0	49.0	Mean - - -	1 19 01
6 00 00	1 20 02	30.178	60.0	42.0	48 0		
8 00 00	1 19 24	30.182		41.0	46.0		
10 00 00	1 17 21	30.200		40.0	46.0		
Noon	1 15 37	30.224	56.5	38.0	43.0		
14 00 00	1 09 16	30.230		40.0	44.0		
16 00 00	1 24 27	30.210		48.0	50.0		
18 00 00	1 28 38	30.166	56.0	52.0	52.0		
20 00 00	1 28 46	30.116		54.0	52.0		
22 00 00	1 27 11	30.080		55.5	54.0		

MARCH 23, 1841.

0 00 00	1 10 50	30.044	57.0	48.5	53.0	Maximum at 20 hours -	1 26 00
2 00 00	1 19 11	30.026		47.0	50.0	Minimum at 4 hours -	1 16 56
4 00 00	1 16 56	29.984		46.0	49.5	Mean - - -	1 21 28
6 00 00	1 21 53	29.880	57.0	45.5	48.0		
8 00 00	1 24 21	29.810		44.5	47.0		
10 00 00	1 17 22	29.760		47.5	47.0		
Noon	1 17 57	29.680	56.5	54.0	53.0		
14 00 00	1 21 21	29.680		55.5	58.0		
16 00 00	1 18 36	29.620		56.0	57.0		
18 00 00	1 24 46	29.524	60.0	56.0	58.0		
20 00 00	1 26 00	29.582		50.0	54.0		
22 00 00	1 25 59	29.610		50.0	54.0		

MARCH 24, 1841.

0 00 00	1 21 49	29.682	59.5	49.5	54.0	Maximum at 20 hours -	1 25 47
2 00 00	1 20 55	29.758		45.0	49.0	Minimum at 10 hours -	1 15 20
4 00 00	1 20 55	29.786		37.5	44.0	Mean - - -	1 20 33.5
6 00 00	1 20 55	29.800	59.0	34.0	40.0		
8 00 00	1 18 38	29.810		33.0	39.0		
10 00 00	1 15 20	29.810		33.0	39.0		
Noon	1 18 42	29.850	56.5	33.0	35.0		
14 00 00	1 15 22	29.872		37.0	39.0		
16 00 00	1 17 34	29 900		48.0	54.0		
18 00 00	1 21 52	29.884	56.5	54.0	58.0		
20 00 00	1 25 47	29.874		58.0	62.0		
22 00 00	1 24 23	29.868		59.0	64.0		

OBSERVATIONS AT WASHINGTON—1841.

MARCH 25, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 83	29.868	56.5	52.0	60.0	Maximum at 20 hours - 1 27 04
2 00 00	1 16 57	29.925		49.0	56.0	Minimum at 14 hours - 1 16 05
4 00 00	1 18 10	29.938		42.0	54.0	Mean - - - 1 21 34.5
6 00 00	1 18 10	29.938	57.0	38.0	50.0	
8 00 00	1 18 10	29.952		36.0	45.0	
10 00 00	1 18 24	29.978		34.0	40.0	
Noon	1 18 10	30.000	55.0	34.0	40.0	
14 00 00	1 16 05	30.000		46.0	51.0	
16 00 00	1 17 08	30.000		50.0	54.0	
18 00 00	1 23 15	30.000	59.0	56.0	58.0	
20 00 00	1 27 04	30.000		63.0	63.0	
22 00 00	1 25 06	30.000		62.0	64.0	

MARCH 26, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 54	30.000	57.5	60.0	64.0	Maximum at 20 hours - 1 26 04
2 00 00	1 17 27	30.000		56.0	60.0	Minimum at 14 hours - 1 15 52
4 00 00	1 21 30	30.000		50.0	54.0	Mean - - - 1 20 58
6 00 00	1 20 14	30.025	56.0	48.0	52.0	
8 00 00	1 20 17	30.050		46.0	49 0	
10 00 00	1 19 35	30.050		45.0	48.0	
Noon	1 18 25	30.042	55.5	46.0	48.0	
14 00 00	1 15 52	30.034		47.0	50.0	
16 00 00	1 17 21	30.032		59.5	58.0	
18 00 00	1 22 22	29.992	61.5	65.0	65.0	
20 00 00	1 26 04	29.966		70.0	71.0	
22 00 00	1 24 49	29.926		72.5	74.0	

MARCH 27, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 47	29.906	64.5	67.0	72.0	Maximum at 20 hours - 1 26 50
2 00 00	1 20 10	29.900		58.0	67.0	Minimum at 14 hours - 1 16 20
4 00 00	1 19 59	29.942		56.0	62.0	Mean - - - 1 21 35
6 00 00	1 16 32	29.894	65.0	53.5	59.0	
8 00 00	1 17 50	29.894		54.0	57.0	
10 00 00	1 19 28	29.884		52.0	56.0	
Noon	1 18 41	29.900	64.0	49.5	58.5	
14 00 00	1 16 20	29.900		57.5	62.0	
16 00 00	1 17 31	29.866		67.0	66.0	
18 00 00	1 24 41	29.850	65.0	70.0	70.0	
20 00 00	1 26 50	29.800		74.0	76.0	
22 00 00	1 24 05	29.790		75.0	76.0	

MAGNETICAL AND METEOROLOGICAL

MARCH 28, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 34	29.772	68 0	69 5	74.5	Maximum at 22 hours - 1 26 49
2 00 00	1 21 08	29.800		65.5	70.0	Minimum at 10 hours - 1 14 11
4 00 00	1 21 08	29.780		66.0	65.0	Mean - - - 1 20 30
6 00 00	1 20 23	29.762	67.0	56.0	63.0	
8 00 00	1 19 21	29.762		58.0	61.0	
10 00 00	1 14 11	29.750		54.0	59.0	
Noon	1 17 05	29.750	65 0	59.0	60.0	
14 00 00	1 15 32	29.800		60.0	64.0	
16 00 00	1 19 37	29.784		68.5	68.0	
18 00 00	1 25 07	29.784	67.5	71.0	72.0	
20 00 00	1 26 07	29.788		74.0	75.0	
22 00 00	1 26 49	29.770		71.0	75.0	

MARCH 29, 1841.

0 00 00	1 21 35	29.770	69.0	65.0	72.0	Maximum at 20 hours - 1 26 14
2 00 00	1 19 47	29.780		63.0	67.0	Minimum at 14 hours - 1 18 08
4 00 00	1 20 39	29.782		62.0	64 0	Mean - - - 1 22 11
6 00 00	1 18 47	29.784	68.0	62.0	62.0	
8 00 00	1 19 36	29.780		50.0	54.0	
10 00 00	1 19 11	29.780		46.0	50.0	
Noon	1 18 54	29.780	66.0	44.0	50.0	
14 00 00	1 18 08	29.770		45.0	50.0	
16 00 00	1 20 58	29.667		43.0	50 0	
18 00 00	1 23 59	29.572	62.0	44.0	50.0	
20 00 00	1 26 14	29.500		46.0	52.0	
22 00 00	1 25 56	29.500		46.0	50.0	

MARCH 30, 1841.

0 00 00	1 25 22	29.500	63.0	48.0	52.0	Maximum at 0 hours - 1 25 22
2 00 00	1 20 21	29.560		46.0	50.0	Minimum at 14 hours - 1 18 43
4 00 00	1 21 15	29.600		46.0	50.0	Mean - - - 1 22 02.5
6 00 00	1 22 26	29.612	62.0	45.0	48.0	
8 00 00	1 24 12	29.628		45.0	48.0	
10 00 00	1 19 27	29.650		45.0	48.0	
Noon	1 19 16	29.660	60.0	45.0	46.0	
14 00 00	1 18 43	29.690		45.0	46.0	
16 00 00	1 22 29	29.766		52.0	54.0	
18 00 00	1 24 55	29.790	57.0	51.5	58.0	
20 00 00	1 24 56	29.814		50.0	51.0	
22 00 00	1 24 31	29.864		49.0	54.0	

MARCH 31, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometer. Attached.	Thermometer. Air.	Thermometer. Magnetic observatory.		
h. m. s	° ′ ″	*Inches.*	°	°	°		° ′ ″
0 00 00	1 21 14	29.970	59.0	45.0	48.0	Maximum at 20 hours -	1 24 37
2 00 00	1 21 28	30.062		42.5	46.0	Minimum at 14 hours -	1 18 27
4 00 00	1 20 56	30.126		41.0	45.0	Mean - - -	1 21 32
6 00 00	1 21 05	30.142	59.0	38.5	43.0		
8 00 00	1 20 33	30.170		37.5	41.0		
10 00 00	1 20 05	30.186		36.0	40.0		
Noon	1 18 56	30.244	54.0	36.0	40.0		
14 00 00	1 18 27	30.244		40.5	48.0		
16 00 00	1 21 10	30.210		47.0	46.0		
18 00 00	1 24 11	30.172	54.5	49.0	48.0		
20 00 00	1 24 37	30.126		52.0	48.0		
22 00 00	1 24 11	30.084		47.0	47.0		

APRIL 1, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometer. Attached.	Thermometer. Air.	Thermometer. Magnetic observatory.		
0 00 00	1 22 39	30.030	57.0	44.5	46.0	Maximum at 20 hours -	1 25 48
2 00 00	1 20 54	30.030		42.0	44.0	Minimum at 14 hours -	1 16 17
4 00 00	1 21 19	29.990		42.0	43.0	Mean - - -	1 21 02.5
6 00 00	1 20 38	29.950	57.0	41.5	42.0		
8 00 00	1 19 26	29.932		39.0	40.0		
10 00 00	1 17 09	29.850		39.0	40.0		
Noon	1 17 24	29.850	49.5	43.0	44.0		
14 00 00	1 16 17	29.818		47.0	48.0		
16 00 00	1 19 01	29.814		52.0	51.0		
18 00 00	1 25 41	29.814	57.0	56.0	56.0		
20 00 00	1 25 48	29.810		60.0	60.0		
22 00 00	1 24 17	29.800		63.0	64.0		

APRIL 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometer. Attached.	Thermometer. Air.	Thermometer. Magnetic observatory.		
0 00 00	1 21 43	29.800	59.5	64.0	66.0	Maximum at 20 hours -	1 27 41
2 00 00	1 21 43	29.836		52.0	60.0	Minimum at 16 hours -	1 17 14
4 00 00	1 21 43	29.828		49.0	54.0	Mean - - -	1 22 27.5
6 00 00	1 20 30	29.826	59.0	46.0	52.0		
8 00 00	1 20 20	29.815		46.0	48.0		
10 00 00	1 19 32	29.812		44.0	46.0		
Noon	1 18 20	29.800	55.0	44.0	46.0		
14 00 00	1 17 17	29.800		50.0	52.0		
16 00 00	1 17 14	29.782		60.0	60.0		
18 00 00	1 24 35	29.680	60.0	67.0	65.0		
20 00 00	1 27 41	29.570		67.0	67.0		
22 00 00	1 25 09	29.500		73.0	71.0		

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
APRIL 3, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 29	29.670	61.0	52.0	56.0	Maximum at 20 hours - 1 27 28
2 00 00	1 21 20	29.750		42.0	50.0	Minimum at 12 hours - 1 16 34
4 00 00	1 21 23	29.822		42.0	46.0	Mean - - - 1 22 01
6 00 00	1 20 25	29.850	58.5	40.0	44.0	
8 00 00	1 19 22	29.910		38.0	42.0	
10 00 00	1 17 48	29.982		36.0	40.0	
Noon	1 16 34	30.010	56.5	37.0	40.0	
14 00 00	1 21 18	30.100		41.0	44.0	
16 00 00	1 20 43	30.136		45.0	51.0	
18 00 00	1 26 07	30.136	57.0	47.5	53.0	
20 00 00	1 27 28	30.096		50.0	55.0	
22 00 00	1 28 55	30.096		56.0	57.0	
APRIL 4, 1841.						
0 00 00	1 19 40	30.092	60.0	51.0	55.0	Maximum at 20 hours - 1 25 28
2 00 00	1 19 33	30.134		47.0	50.0	Minimum at 14 hours - 1 17 48
4 00 00	1 21 36	30.134		46.0	48.0	Mean - - - 1 21 38
6 00 00	1 23 18	30.086	58.5	45.0	46.0	
8 00 00	1 20 36	30 086		43.5	45.0	
10 00 00	1 22 19	30.086		44.0	44.5	
Noon	1 19 21	30.066	56.5	44.5	44.5	
14 00 00	1 17 48	30.066		43.0	49.0	
16 00 00	1 20 34	30.018		42.0	47.0	
18 00 00	1 25 20	29.920	57.5	45.0	48.0	
20 00 00	1 25 28	29.800		44.0	47.0	
22 00 00	1 23 02	29.662		44.0	48,0	
APRIL 5, 1841.						
0 00 00	1 20 35	29.602	59.5	49.0	50.0	Maximum at 20 hours - 1 29 31
2 00 00	1 20 35	29.570		49.0	51.0	Minimum at 14 hours - 1 15 59
4 00 00	1 21 02	29.570		48.0	51.0	Mean - - - 1 22 45
6 00 00	1 21 02	29.570	60.0	46.0	49.0	
8 00 00	1 20 19	29.574		44.0	48.0	
10 00 00	1 17 35	29.608		45.0	49.0	
Noon	1 18 39	29.700	58.0	47.0	48.0	
14 00 00	1 15 59	29.778		47.0	53.0	
16 00 00	1 19 29	29.828		50.0	58.0	
18 00 00	1 26 06	29.826	58.0	53.0	58.0	
20 00 00	1 29 31	29.820		57.5	60 0	
22 00 00	1 25 35	29.808		60.0	60.0	

OBSERVATIONS AT WASHINGTON—1841.

APRIL 6, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 14	29.850	60.0	52.0	59.0	Maximum at 20 hours - 1 26 31
2 00 00	1 21 39	29.854		50.0	56.0	Minimum at 14 hours - 1 17 32
4 00 00	1 17 56	29.900		46.0	53.0	Mean - - - - 1 22 01.5
6 00 00	1 20 55	29.900	58.0	46.0	53.0	
8 00 00	1 19 29	29.920		44.0	50.0	
10 00 00	1 19 29	29.950		44.0	50.0	
Noon	1 17 53	29.978	56.0	44.0	48.0	
14 00 00	1 17 32	30.050		45.0	48.0	
16 00 00	1 18 04	30.112		46.0	53.0	
18 00 00	1 24 48	30.110	56.5	53 0	55.0	
20 00 00	1 26 31	30.100		55.0	58.0	
22 00 00	1 24 13	30.100		56.0	60.0	

APRIL 7, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 38	30.120	58.5	53.0	60.0	Maximum at 20 hours - 1 25 57
2 00 00	1 21 42	30.190		49.0	54.0	Minimum at 14 hours - 1 16 45
4 00 00	1 20 12	30.150		40.0	46.0	Mean - - - - 1 21 21
6 00 00	1 20 39	30.150	59.5	40.0	46.0	
8 00 00	1 18 30	30.120		39.0	44.0	
10 60 00	1 17 16	30.100		37.0	40.0	
Noon	1 18 01	30.070	56.5	40.0	44.0	REMARKS.,
14 00 00	1 16 45	30.090		48.0	48.0	
16 00 00	1 20 20	29.932		55.0	55.0	From 18*h*. 30*m*. to 21*h*. 15*m*., minute guns were fired at the Capitol, the percussion of the air agitating the needle.
18 00 00	1 24 27	29.864	58.0	62 0	57.0	
20 00 00	1 25 57	29.814		65.0	61.0	
22 00 00	1 23 20	29.714		66.0	62.0	

APRIL 8, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 05	29.700	62.5	67.0	66.0	Maximum at 20 hours - 1 28 04
2 00 00	1 22 05	29.700		55.0	62.0	Minimum at 10 hours - 1 13 01
4 00 00	1 18 08	29.650		52.0	56.0	Mean - - - - 1 20 32.5
6 00 00	1 17 42	29.638	62.0	50.0	54.0	
8 00 00	1 17 47	29.660		49.0	52.0	
10 00 00	1 13 01	29.694		47.0	50.0	
Noon	1 17 34	29.706	59.5	46.0	49.0	
14 00 00	1 20 48	29.758		49.5	50.0	
16 00 00	1 21 07	29.724		50.8	51.0	
18 00 00	1 27 19	29.742	59.5	55.0	56.0	
20 00 00	1 28 04	29.792		57.2	58.0	
22 00 00	1 24 04	29.792		58.6	60.0	

APRIL 9, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 30	29.796	59.0	53.8	59.0	Maximum at 20 hours - 1 25 55
2 00 00	1 20 19	29.804		50.0	52.0	Minimum at 14 hours - 1 15 57
4 00 00	1 19 51	29.884		44.0	50.0	Mean - - - - 1 20 56
6 00 00	1 20 14	29.836	60.0	42.0	46.0	
8 00 00	1 20 14	29.838		44.0	48.0	
10 00 00	1 20 17	29.838		45.0	48.0	
Noon	1 17 46	29.848	57.5	47.0	48.0	
14 00 00	1 15 57	29.814		50.4	50.0	
16 00 00	1 16 40	29.754		57 0	59.0	
18 00 00	1 20 54	29.650	57.5	64.0	63.0	
20 00 00	1 25 55	29.532		71.0	70.0	
22 00 00	1 24 49	29.530		74.0	72.0	

APRIL 10, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 49	29.534	62.0	67.0	70.0	Maximum at 20 hours - 1 26 37
2 00 00	1 20 49	29.530		63.0	70.0	Minimum at 14 hours - 1 17 17
4 00 00	1 18 48	29.532		59.0	64.0	Mean - - - - 1 21 57
6 00 00	1 19 13	29.533	64.5	59.6	64.0	
8 00 00	1 19 12	29.533		59.2	61.0	
10 00 00	1 19 08	29.533		55.8	58.0	
Noon	1 18 47	29.583	60.0	49.0	54 0	
14 00 00	1 17 17	29.533		47.2	53.0	
16 00 00	1 19 11	29.700		48.0	50.0	
18 00 00	1 28 32	29.726	56.5	47.0	49.0	
20 00 00	1 26 37	29.676		40.0	44.0	
22 00 00	1 25 17	29.700		38.0	43 0	

APRIL 11, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 56	29.770	56.5	36.0	38.0	Maximum at 22 hours - 1 29 37
2 00 00	1 21 16	29.840		34.0	37.0	Minimum at 12 hours - 1 13 52
4 00 00	1 21 00	29.850		32.5	38.0	Mean - - - - 1 21 44.5
6 00 00	1 20 48	29.852	53.5	32.5	38.0	
8 00 00	1 19 35	29.870		32.5	36.0	
10 00 00	1 19 10	29.872		32.5	36.0	
Noon	1 13 52	29.992	52.0	32.5	37.0	
14 00 00	1 14 19	30.038		35.0	42.0	
16 00 00	1 20 57	30.080		38.0	46.0	
18 00 00	1 27 31	30.072	51.0	40.5	45.0	
20 00 00	1 27 59	30.094		45.0	46.0	
22 00 00	1 29 37	30.058		43.0	46.0	

APRIL 12, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 29	30.058	51.5	39.5	43.0	Maximum at 20 hours - 1 28 35
2 00 00	1 20 12	30.100		39.0	42.0	Minimum at 4 hours - 1 12 48
4 00 00	1 12 48	30.084		36.0	42.0	Mean - - - - 1 20 41.5
6 00 00	1 19 18	30.064	50.5	35.0	39.0	
8 00 00	1 19 18	30.022		32.0	35.0	
10 00 00	1 18 24	30.000		32.0	35.0	
Noon	1 18 02	29.982	49.5	32.0	35.0	
14 00 00	1 16 47	29.976		33.0	36.0	
16 00 00	1 21 03	29.936		34.0	36.0	
18 00 00	1 26 47	29.884	49.5	42.0	36.0	
20 00 00	1 28 35	29.854		40.0	38.0	
22 00 00	1 25 08	29.844		34.0	37.0	

APRIL 13, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 50	29.844	49.0	34.0	38.0	Maximum at 20 hours - 1 26 43
2 00 00	1 20 51	29.850		32.0	37.0	Minimum at 10 hours - 1 20 03
4 00 00		29.880				Mean - - - - 1 22 29
6 00 00	1 20 41	29.840	47.0	33.0	40.0	
8 00 00	1 20 29	29.844		32.0	35.0	
10 00 00	1 20 03	29.844		34.0	35.0	
Noon	1 21 24	29.874	46.5	35.0	36.0	
14 00 00	1 22 31	29.890		41.0	46.0	
16 00 00	1 22 43	29.836		43.4	46.0	
18 00 00	1 25 46	29.856	49.5	47.3	51.0	
20 00 00	1 26 43	29.860		52.0	53.0	
22 00 00	1 24 23	29.828		53.0	53.0	

APRIL 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 20	29.812	53.0	53.9	53.0	Maximum at 20 hours - 1 26 53
2 00 00	1 20 41	29.764		45.4	50.0	Minimum at 14 hours - 1 16 44
4 00 00	1 19 24	29.760		42.0	48.0	Mean - - - - 1 21 48.5
6 00 00	1 19 25	29.700	52.0	42.0	47.0	
8 00 00	1 19 52	29.690		43.0	46.0	
10 00 00	1 19 22	29.684		43.0	44.0	
Noon	1 18 21	29.690	51.5	44.0	44.0	
14 00 00	1 16 44	29.844		43.0	44.0	
16 00 00	1 17 55	29.956		45.0	47.0	
18 00 00	1 26 34	29.952	51.5	51.0	52.0	
20 00 00	1 26 53	29.988		51.0	53.0	
22 00 00	1 23 58	30.000		49.0	54.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory	
APRIL 15, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 16	30.126	52.5	46.0	50.0	Maximum at 20 hours - 1 26 50
2 00 00	1 20 24	30.200		44.0	48.0	Minimum at 4 hours - 1 13 04
4 00 00	1 13 04	30.200		41.4	42.0	Mean - - - 1 19 57
6 00 00	1 17 52	30.233	52.5	38.6	40.0	
8 00 00	1 18 34	30.264		35.6	38.0	
10 00 00	1 19 29	30.284		33.0	36.4	
Noon	1 18 46	30.350	51.5	33.0	36.0	
14 00 00	1 17 37	30.400		37.0	47.0	
16 00 00	1 20 19	30.430		38.0	48.0	
18 00 00	1 23 17	30.426	52.5	41.0	50.0	
20 00 00	1 26 50	30.350		44.0	52.0	
22 00 00	1 24 47	30.360		48.0	54.0	
APRIL 16, 1841.						
0 00 00	1 23 01	30.374	53.5	48.0	54.0	Maximum at 20 hours - 1 25 39
2 00 00	1 20 44	30.374		44.0	46.0	Minimum at 10 hours - 1 17 30
4 00 00	1 19 44	30.384		40.0	48.0	Mean - - - 1 21 34.5
6 00 00	1 18 39	30.386	51.5	38.0	41.0	
8 00 00	1 18 44	30.386		38.0	40.0	
10 00 00	1 17 30	30.390		38.0	40.0	
Noon	1 17 50	30.420	50.0	39.0	40.0	
14 00 00	1 18 24	30.410		46.0	43.0	
16 00 00	1 21 36	30.430		53.0	50.0	
18 00 00	1 22 55	30.370	52.5	52.0	51.0	
20 00 00	1 25 39	30.326		55.0	54.0	
22 00 00	1 25 25	30.288		58.0	56.0	
APRIL 17, 1841.						
0 00 00	1 25 10	30.270	54.5	53.0	54.0	Maximum at 20 hours - 1 29 39
2 00 00	1 22 44	30.250		50.0	53.0	Minimum at 14 hours - 1 16 43
4 00 00	1 16 46	30.250		48.0	50.0	Mean - - - 1 23 11
6 00 00	1 19 57	30.200	54.5	46.0	49.0	
8 00 00	1 18 30	30.150		46.0	49.0	
10 00 00	1 18 07	30.112		46.0	49 0	
Noon	1 17 11	30.096	55.0	46.0	48.0	
14 00 00	1 16 43	30.050		48.0	50.0	
16 00 00	1 18 59	30.028		53.0	54.0	
18 00 00	1 24 24	29.972	56.5	58.0	56.0	
20 00 00	1 29 39	29.896		62.0	58.0	
22 00 00	1 26 14	29.850		65.0	62.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
APRIL 18, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 18 15	29.832	58.5	60.0	60.0	Maximum at 20 hours - 1 29 53
2 00 00	1 17 29	29.820		58.0	60.0	Minimum at 6 hours - 1 15 21
4 00 00	1 15 28	29.744		55 5	58.0	Mean - - - 1 22 37
6 00 00	1 15 21	29.696	58.5	56.0	57.0	
8 00 00	1 18 20	29.570		56.5	57.0	
10 00 00	1 17 21	29.474		58.0	58.0	
Noon	1 17 39	29 510	60.0	59.5	59.5	
14 00 00	1 18 03	29.602		60.5	64.5	
16 00 00	1 20 42	29.700		56.0	58.0	
18 00 00	1 26 50	29 722	62.0	56.2	59.0	
20 00 00	1 29 53	29.720		58.5	60.0	
22 00 00	1 27 36	29.733		58.4	60.0	
APRIL 19, 1841.						
0 00 00	1 16 07	29.736	61.0	60.0	59.0	Maximum at 20 hours - 1 26 32
2 00 00	1 18 30	29.890		51.0	54.0	Minimum at 0 hours - 1 16 07
4 00 00	1 18 19	29.968		47.0	50.0	Mean - - - 1 21 19.5
6 00 00	1 22 14	29.988	59.0	43.0	46.0	
8 00 00	1 18 09	30.000		40.0	44.0	
10 00 00	1 18 09	30.072		36.0	40.0	
Noon	1 17 49	30.112	54.5	34 0	40.0	
14 00 00	1 17 00	30.122	-	43.0	52.0	
16 00 00	1 20 42	30 120		47.0	56.0	
18 00 00	1 24 36	30.070	54.0	57.0	57.0	
20 00 00	1 26 32	30.016		59.0	56.0	
22 00 00	1 26 01	29.980		60.0	59·0	
APRIL 20, 1841.						
0 00 00	1 25 34	29.962	58.0	59.0	56.0	Maximum at 20 hours - 1 25 39
2 00 00	1 19 12	29.960		46.0	54.0	Minimum at 14 hours - 1 16 16
4 00 00	1 20 02	29.990		45.0	50.0	Mean - - - 1 20 57.5
6 00 00	1 19 01	29.990	60.0	46.0	48.0	
8 00 00	1 17 55	29.960		44.8	47.0	
10 00 00	1 17 55	29.934		44.0	46.0	
Noon	1 16 32	29.972	58.0	46.0	47.0	
14 00 00	1 16 16	29.984		49.0	50.0	
16 00 00	1 18 51	29.980		46.0	49.0	
18 00 00	1 24 26	29 968	57.0	50.0	50.0	
20 00 00	1 25 39	29.924		50.0	52.0	
22 00 00	1 22 42	29.880		51.0	53.0	

APRIL 21, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 19	29.870	59.0	51 0	54.0	Maximum at 20 hours - 1 23 24
2 00 00	1 17 07	29.858		51.0	50.0	Minimum at 14 hours - 1 15 53
4 00 00	1 20 17	29.850		50.0	53.0	Mean - - - 1 19 38.5
6 00 00	1 20 17	29.808	56.5	50.0	52.0	
8 00 00	1 17 32	29 820		48.0	50.0	
10 00 00	1 16 32	29.820		48.0	50.0	
Noon	1 17 12	29.804	56.0	50.0	51.0	
14 00 00	1 15 53	29.814		50.0	52.0	
16 00 00	1 20 35	29.856		54.0	55.0	
18 00 00	1 22 25	29.876	58.5	54.5	56.0	
20 00 00	1 23 24	29.888		53.0	54.0	
22 00 00	1 22 52	29.980		50 0	50.0	

APRIL 22, 1841.

0 00 00	1 18 49	29.988	58.5	51.0	54.0	Maximum at 18 hours - 1 26 44
2 00 00	1 18 34	30.036		46.0	59.0	Minimum at 12 hours - 1 16 55
4 00 00	1 20 18	30.050		46.0	63.0	Mean - - - 1 21 49.5
6 00 00	1 20 45	30.050	57.5	40.0	65.0	
8 00 00	1 20 22	30.072		39.0	62.0	
10 00 00	1 22 37	30.050		38 0	64.0	
Noon	1 16 55	30.050	55.5	37.0	61.0	
14 00 00	1 18 09	30.022		44.0	50 0	
16 00 00	1 20 44	30.068		51.0	54.0	
18 00 00	1 26 44	30.010	55.0	51.0	60.0	
20 00 00	1 25 18	29.980		55.0	60.0	
22 00 00	1 25 15	29.948		53.0	58.0	

APRIL 23, 1841.

0 00 00	1 24 24	29.964	57.0	47.0	52.0	Maximum at 20 hours - 1 25 41
2 00 00	1 22 04	29.936		45.0	50.0	Minimum at 14 hours - 1 16 32
4 00 00	1 21 28	29.892		46.0	48.0	Mean - - - 1 21 06.5
6 00 00	1 20 16	29.844	57.0	45.0	48.0	
8 00 00	1 20 42	29.788		45.0	47.5	
10 00 00	1 21 17	29.784		45.5	46.5	
Noon	1 17 33	29.806	56.0	46.0	47.0	
14 00 00	1 16 32	29.816		48.5	55.0	
16 00 00	1 19 29	29.822		52.0	52.0	
18 00 00	1 22 59	29.828	57.5	57.0	54.0	
20 00 00	1 25 41	29.852		55.0	56.0	
22 00 00	1 23 45	29.852		56.0	56.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
APRIL 24, 1841.						
h. m. s.	° ' "	*Inches.*	°	°	°	° ' "
0 00 00	1 21 00	29.884	59.5	54.5	56.0	Maximum at 20 hours - 1 28 38
2 00 00	1 19 23	29.924		51.0	54.0	Minimum at 14 hours - 1 18 27
4 00 00	1 21 14	29.976		49.0	54.0	Mean - - - - 1 23 32.5
6 00 00	1 20 54	29.966	58.5	45.0	50.0	
8 00 00	1 20 04	29.980		43.0	48.0	
10 00 00	1 18 44	29.980		41.0	46.0	
Noon	1 19 53	29.980	56.5	44.0	46.0	
14 00 00	1 18 27	29.992		47.0	50.0	
16 00 00	1 21 13	30.026		53.0	57.0	
18 00 00	1 24 56	30.034	61.5	59.0	59.0	
20 00 00	1 28 38	29.980		62.0	67.0	
22 00 00	1 26 13	29.984		63.0	70.0	
APRIL 25, 1841.						
0 00 00	1 24 19	29.974	64.0	65.0	70.0	Maximum at 20 hours - 1 24 32
2 00 00	1 19 27	29.982		62.0	70.0	Minimum at 16 hours - 1 15 51
4 00 00	1 19 02	29.978		52.0	57.0	Mean - - - - 1 20 11.5
6 00 00	1 20 17	29.978	60.0	52.0	54.0	
8 00 00	1 20 24	29.974		51.0	54.0	
10 00 00	1 19 24	29.978		52.0	54.0	
Noon	1 19 11	29.978	60.0	55.0	54.0	
14 00 00	1 17 29	29.986		60.0	62.0	
16 00 00	1 15 51	30.020		66.0	62.0	
18 00 00	1 20 45	30.014	62.5	64.5	66.0	
20 00 00	1 24 32	29.995		64.5	67.0	
22 00 00	1 22 30	29.976		64.4	68.0	
APRIL 26, 1841.						
0 00 00	1 24 17	30.000	64.5	64 0	68.0	Maximum at 20 hours - 1 25 36
2 00 00	1 21 57	29.986		58 0	68 0	Minimum at 12 hours - 1 18 11
4 00 00	1 21 06	30.000		53.0	59.0	Mean - - - - 1 21 58.5
6 00 00	1 19 23	29.980	64.0	50.0	54.0	
8 00 00	1 18 35	29.950		50.0	53 0	
10 00 00	1 18 26	29.950		49.0	52.0	
Noon	1 18 11	29.950	63.0	50 0	52.0	
14 00 00	1 18 27	29.950		52.0	53.0	
16 00 00	1 19 09	29.898		59.0	58.0	
18 00 00	1 22 36	29 838	63.5	66.0	62.0	
20 00 00	1 25 36	29 748		70.0	68.0	
22 00 00	1 24 54	29.722		70.0	68.0	

APRIL 27, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 01	29.674	65.0	64.0	66.0	Maximum at 20 hours - 1 24 33
2 00 00	1 22 13	29.680		60.0	62.0	Minimum at 6 hours - 1 15 23
4 00 00		29.662		57.8	60.0	Mean - - - - 1 19 58
6 00 00	1 15 23	29.614	64.5	57.0	59.0	
8 00 00	1 15 44	29.568		57.0	59.0	
10 00 00	1 16 24	29.626		56.0	58.0	
Noon	1 16 19	29.640	64 0	54.0	58.0	
14 00 00	1 17 29	29.684		59.0	60.0	
16 00 00	1 21 20	29.714		58.0	61.0	
18 00 00	1 23 38	29.712	64.0	59.6	62.0	
20 00 00	1 24 33	29.716		59.5	62.0	
22 00 00	1 22 31	29.728		60.0	62.0	

APRIL 28, 1841.

0 00 00	1 22 06	29.832	64.0	56.6	57.0	Maximum at 22 hours - 1 26 06
2 00 00	1 19 21	29.868		51.4	52.0	Minimum at 14 hours - 1 18 09
4 00 00	1 21 06	29.884		48.0	48.0	Mean - - - - 1 22 07.5
6 00 00	1 20 51	29.924	64.0	45.0	44.0	
8 00 00	1 19 44	29.954		43.0	44.0	
10 00 00	1 19 29	29 990		40.0	42.0	
Noon	1 19 29	30.020	64.5	41.0	42.0	
14 00 00	1 18 09	30.028		50.0	52.0	
16 00 00	1 23 10	30.050		54.0	58.0	
18 00 00	1 24 15	30.036	64.5	56.0	58.0	
20 00 00	1 25 12	29.970		62.0	59.0	
22 00 00	1 26 06	29.950		63.0	58.0	

APRIL 29, 1841.

0 00 00	1 25 09	29.950	64.0	59.0	58 0	Maximum at 18 hours - 1 25 32
2 00 00	1 21 11	29.922		49.6	52.0	Minimum at 14 hours - 1 17 28
4 00 00	1 21 35	29.924		46.0	49.0	Mean - - - - 1 21 30
6 00 00	1 19 35	29.850	62.5	45.0	48.0	
8 00 00	1 19 58	29.808		47 0	48.0	
10 00 00	1 19 04	29.732		47.4	49.0	
Noon	1 17 34	29.660	60.5	47.0	48.0	
14 00 00	1 17 28	29.634		45.0	47.0	
16 00 00	1 21 39	29.566		44.0	44.5	
18 00 00	1 25 32	29.440	59.5	44.0	46.0	
20 00 00	1 25 18	29.282		46.0	47.0	
22 00 00	1 24 21	29.186		48.0	49 0	

APRIL 30, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 50	29.130	59.5	49.0	50.0	Maximum at 20 hours - 1 25 09
2 00 00	1 22 18	29.112		46.5	50 0	Minimum at 14 hours - 1 17 28
4 00 00	1 22 06	29.150		45.0	49.0	Mean - - - 1 21 18.5
6 00 00	1 20 40	29.120	58.5	44.0	48.0	
8 00 00	1 19 48	29.100		44.0	48.0	
10 00 00	1 19 24	29.100		44.0	48.0	
Noon	1 18 34	29.082	57.5	44.0	48.0	
14 00 00	1 17 28	29.082		46.0	49.0	
16 00 00	1 21 00	29.074		50.0	50.0	
18 00 00	1 24 52	29.112	57.5	51.0	51.0	
20 00 00	1 25 09	29.126		53.0	54.0	
22 00 00	1 22 08	29.174		53.0	53.0	

MAY 1, 1841.

0 00 00	1 20 23	29 234	58.0	48.0	52.0	Maximum at 22 hours - 1 26 58
2 00 00	1 15 46	29.332		47.0	52.0	Minimum at 14 hours - 1 14 46
4 00 00	1 20 21	29.350		46.5	49.0	Mean - - - 1 20 52
6 00 00	1 21 33	29.376	57.5	47.0	48.0	
8 00 00	1 19 28	29.386		46.8	47.5	
10 00 00	1 21 06	29.422		47.0	49.0	
Noon	1 17 47	29.484	57.0	48.0	50.0	
14 00 00	1 14 46	29.540		50.0	55.0	
16 00 00	1 19 34	29.572		52.0	56.0	
18 00 00	1 24 36	29.572	59.0	54.6	57.0	
20 00 00	1 26 28	29.558		59.0	62.0	
22 00 00	1 26 58	29.570		61.8	63.0	

MAY 2, 1841.

0 00 00	1 20 27	29.628	60.5	61.0	63.0	Maximum at 20 hours - 1 25 57
2 00 00	1 21 04	29.688		55.4	58.0	Minimum at 14 hours - 1 15 49
4 00 00	1 21 16	29.736		53.0	52.0	Mean - - - 1 20 53
6 00 00	1 20 44	29.736	60.0	47.0	50.0	
8 00 00	1 20 54	29.734		43.0	48.0	
10 00 00	1 20 49	29.728		43.0	46 0	
Noon	1 17 46	29.640	59.0	46.0	48.0	
14 00 00	1 15 49	29.624		50.0	50.0	
16 00 00	1 22 22	29.520		56.0	55.0	
18 00 00	1 25 39	29.446	59.0	67.0	65.0	
20 00 00	1 25 57	29.548		55.6	61.0	
22 00 00	1 22 08	29.630		53.4	55.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 3, 1841.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 19 54	29.750	56.5	49.5	53.0	Max. at 18 and 20 hours 1 24 44
2 00 00	1 19 54	29.778		45.0	52.0	Minimum at 14 hours - 1 14 13
4 00 00	1 21 04	29.806		41 0	45.0	Mean - - - 1 19 28.5
6 00 00	1 20 17	29.830	57.0	40.0	43.0	
8 00 00	1 19 19	29.832		37.0	41.0	
10 00 00	1 17 19	29.864		36.0	40.0	
Noon	1 16 39	29.886	54.0	39.0	40 0	
14 00 00	1 14 13	29.904		40.0	43.0	
16 00 00	1 21 09	29.950		42.0	50.0	
18 00 00	1 24 44	29.900	50.0	45.0	51.0	
20 00 00	1 24 44	29.862		50.0	54.0	
22 00 00	1 22 27	29.844		52.0	56.0	
MAY 4, 1841.						
0 00 00	1 21 44	29.850	51.5	47.0	52.0	Maximum at 18 hours - 1 27 49
2 00 00	1 21 44	29.880		42.5	48.0	Minimum at 12 hours - 1 17 39
4 00 00	1 21 44	29.900		40.0	42.0	Mean - - - 1 22 44
6 00 00	1 21 02	29.908	48.0	37.0	40 0	
8 00 00	1 20 10	29.900		34.0	38.0	
10 00 00	1 19 44	29.900		34.0	38.0	
Noon	1 17 39	29 806	45.0	38.0	38 0	
14 00 00	1 19 06	29.834		40.5	48.0	
16 00 00	1 22 21	29 856		44.5	51.0	
18 00 00	1 27 49	29.822	48.5	48.0	53.0	
20 00 00	1 25 34	29.800		54.0	56.0	
22 00 00	1 22 52	29.770		57.0	58.5	
MAY 5, 1841.						
0 00 00	1 20 07	29.786	52.5	56.0	58.5	Maximum at 20 hours - 1 27 44
2 00 00	1 20 26	29.794		47.0	53.0	Minimum at 14 hours - 1 15 31
4 00 00	1 20 18	29.800		44.0	50.0	Mean - - - 1 21 37.5
6 00 00	1 20 18	29.844	52.5	40.0	46.0	
8 00 00	1 20 25	29.844		37.0	42.0	
10 00 00	1 18 32	29.862		37.0	40.0	
Noon	1 17 48	29 840	55.5	40.0	46.0	
14 00 00	1 15 31	29 848		43.0	49.0	
16 00 00	1 19 29	29.838		55 0	53.0	
18 00 00	1 24 32	29.794	55.5	49.0	56.0	
20 00 00	1 27 44	29.780		47.0	51.0	
22 00 00	1 25 01	29.666		47.8	51.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 6, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 34	29.660	54.5	47.0	50.0	Maximum at 20 hours - 1 30 13
2 00 00	1 21 27	29.660		47.0	50.0	Minimum at 4 hours - 1 07 34
4 00 00	1 07 34	29.694		47.4	49.5	Mean - - - - 1 18 53.5
6 00 00	1 21 07	29.694	54.5	47.0	49.5	
8 00 00	1 19 48	29.722		48.0	48.0	
10 00 00	1 24 20	29.760		48.0	48.0	
Noon	1 14 53	29.812	53.5	52.0	50.0	
14 00 00	1 14 36	29.840		54.5	52.0	
16 00 00	1 19 21	29.850		55.5	57.0	
18 00 00	1 24 26	29.840	57.5	57.4	61.0	
20 00 00	1 30 13	29.840		62.4	64.0	
22 00 00	1 29 15	29.836		64.8	66.0	
MAY 7, 1841.						
0 00 00	1 22 44	29.850	59.5	64.0	66.0	Maximum at 20 hours - 1 26 57
2 00 00	1 24 14	29.966		55.5	60.0	Minimum at 14 hours - 1 16 49
4 00 00	1 18 59	29.974		50.2	55.0	Mean - - - - 1 21 53
6 00 00	1 19 44	30.024	57.5	47.5	51.0	
8 00 00	1 19 49	30.040		44.0	48.0	
10 00 00	1 19 24	30.068		42.0	46.0	
Noon	1 17 06	30.082	55.5	43.0	46.0	
14 00 00	1 16 49	30.082		52.0	51.0	
16 00 00	1 20 46	30.078		58.0	60.0	
18 00 00	1 25 07	30.034	59.0	61.0	64.0	
20 00 00	1 26 57	30.000		61.0	62.0	
22 00 00	1 25 26	29.950		58.0	62.0	
MAY 8, 1841.						
0 00 00	1 22 39	29.900	60.0	55.0	58.0	Maximum at 20 hours - 1 27 16
2 00 00	1 21 32	29.836		52.0	54.0	Minimum at 14 hours - 1 18 33
4 00 00	1 21 15	29.800		47.0	50.0	Mean - - - 1 22 54.5
6 00 00	1 21 29	29.720	57.0	46.0	49.0	
8 00 00	1 19 44	29.760		45.5	48.0	
10 00 00	1 21 07	29.730		45.5	48.0	
Noon	1 18 56	29.780	55.5	46.8	52.0	
14 00 00	1 18 33	29.868		46.8	51.0	
16 00 00	1 21 06	29.940		52.0	52.0	
18 00 00	1 26 58	29.962	57.5	52.0	56.0	
20 00 00	1 27 16	29.976		58.0	62.0	
22 00 00	1 24 14	30.022		57.0	60.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 9, 1841.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 31	30.052	59.5	55.0	57.0	Maximum at 20 hours - 1 26 13
2 00 00	1 19 34	30.086		53.5	56.0	Minimum at 14 hours - 1 15 05
4 00 00	1 21 21	30.130		49.0	54 0	Mean - - - 1 20 39
6 00 00	1 19 19	30.138	58.5	43.0	50.0	
8 00 00	1 19 19	30.150		40.0	46.0	
10 00 00	1 18 41	30.150		39.0	44.0	
Noon.	1 18 21	30.150	58.0	50.0	52.0	
14 00 00	1 15 05	30.150		56.0	56.0	
16 00 00	1 19 21	30.126		58.6	64.0	
18 00 00	1 25 22	30.128	60.5	61.8	64.0	
20 00 00	1 26 13	30.074		67.4	66.0	
22 00 00	1 22 26	30.020		64.6	65.0	
MAY 10, 1841.						
0 00 00	1 21 11	30.010	61.5	59.5	62.0	Maximum at 14 hours - 1 27 36
2 00 00	1 15 51	29.980		54.4	58.0	Minimum at 12 hours - 1 09 31
4 00 00	1 27 33	29.966		51.5	55.0	Mean - - - 1 18 33.5
6 00 00	1 20 23	29.874	59.5	51.4	54.0	
8 00 00	1 10 13	29.818		52.0	54.0	
10 00 00	1 19 04	29.754		53.0	54.0	
Noon	1 09 31	29.716	59.0	53.5	54.0	
14 00 00	1 27 36	29.638		56.5	61.0	
16 00 00	1 22 25	29.620		57.0	59.0	
18 00 00	1 24 31	29.558	62.0	63.4	66.4	
20 00 00	1 26 46	29.450		67.2	66.0	
22 00 00	1 25 44	29.420		68.2	68.0	
MAY 11, 1841.						
0 00 00	1 23 16	29.392	64.5	64.8	68.0	Maximum at 2 hours - 1 28 14
2 00 00	1 28 14	29.400		63.0	66.0	Minimum at 14 hours - 1 15 49
4 00 00	1 24 33	29.550		61.6	64.0	Mean - - - 1 22 01.5
6 00 00	1 23 05	29.550	64.0	58.0	61.0	
8 00 00	1 21 49	29.426		57.6	59.0	
10 00 00	1 21 01	29.422		55.6	58.0	
Noon	1 18 08	29.459	63.0	60.0	58.0	
14 00 00	1 15 49	29.466		61.0	64.0	
16 00 00	1 19 48	29.468		63.0	66.0	
18 00 00	1 22 05	29.500	63.5	64.0	66.0	
20 00 00	1 26 26	29.470		66.0	66.0	
22 00 00	1 25 49	29.476		66.0	66,0	

OBSERVATIONS AT WASHINGTON—1841.

			Thermometers.			
MAY 12, 1841.						
Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 26	29.500	65.5	67.0	70.0	Maximum at 20 hours - 1 26 01
2 00 00	1 21 39	29.526		65.0	69.0	Minimum at 14 hours - 1 17 19
4 00 00	1 21 27	29.540		56.0	58.0	Mean - - - 1 21 40
6 00 00	1 20 10	29.532	63.2	53.4	56.0	
8 00 00	1 20 36	29.510		52.8	54.0	
10 00 00	1 20 06	29.520		51.2	54.0	
Noon	1 20 00	29.540	61.5	56.0	52.0	
14 00 00	1 17 19	29.540		57.4	62.0	
16 00 00	1 20 50	29.564		59.4	60.0	
18 00 00	1 24 40	29.562	61.0	61.0	62.0	
20 00 00	1 26 01	29.576		61.0	62.0	
22 00 00	1 22 59	29.610		61.0	63.0	
MAY 13, 1841.						
0 00 00	1 21 45	29.670	61.8	57.5	59.0	Maximum at 20 hours - 1 25 24
2 00 00	1 21 25	29.708		54.5	57.0	Minimum at 12 hours - 1 17 36
4 00 00		29.740		51.0	56.0	Mean - - - 1 21 30
6 00 00	1 19 35	29.740	64.5	50.0	54.0	
8 00 00	1 19 27	29.744		49.0	53.0	
10 00 00	1 18 58	29.744		47.0	53.0	
Noon	1 17 36	29.762	62.5	51.0	50.0	
14 00 00	1 17 44	29.762		53.0	54.0	
16 00 00	1 20 49	29.764		61.6	60.0	
18 00 00	1 24 46	29.706	62.0	63.6	66.0	
20 00 00	1 25 24	29.686		63.0	65.0	
22 00 00	1 23 09	29.730		49.0	59.0	
MAY 14, 1841.						
0 00 00	1 21 51	29.740	61.5	49.0	55.0	Maximum at 22 hours - 1 23 24
2 00 00	1 21 10	29.776		47.0	52.0	Minimum at 14 hours - 1 18 59
4 00 00	1 20 52	29.794		46.8	50.0	Mean - - - 1 21 11.5
6 00 00	1 19 44	29.794	56.5	45.0	47.0	
8 00 00	1 20 56	29.778		43.0	46.0	
10 00 00	1 20 41	29.780		43.5	45.0	
Noon			54.0			
14 00 00	1 18 59	29.820		52.0	59.0	
16 00 00	1 20 56	29.826		55.8	57.0	
18 00 00	1 23 05	29.818	57.0	58.6	60.0	
20 00 00	1 23 09	29.820		60.0	62.0	
22 00 00	1 23 24	29.820		61.2	63.0	

MAGNETICAL AND METEOROLOGICAL

MAY 15, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 35	29.836	60.2	61.0	62.0	Maximum at 20 hours - 1 26 51
2 00 00	1 17 04	29.856		50.0	57.0	Minimum at 4 hours - 1 16 24
4 00 00	1 16 24	29.866		47.8	52.0	Mean - - - 1 21 37.5
6 00 00	1 21 14	29.866	59.5	47.8	50.0	
8 00 00	1 21 06	29.866		47.0	49.0	
10 00 00	1 20 56	29.908		43.0	46.0	
Noon	1 18 13	29.954	59.0	49.8	48.0	
14 00 00	1 18 21	30.000		57.0	61.0	
16 00 00	1 23 24	29.976		57.0	65.0	
18 00 00	1 26 50	29.976	60.7	60.0	66.0	
20 00 00	1 26 51	29.962		62.5	67.0	
22 00 00	1 22 24	29.940		65.5	68.5	

MAY 16, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 27	29.954	61.7	66.0	70.0	Maximum at 20 hours - 1 26 22
2 00 00	1 21 47	29.954		54.0	62.0	Minimum at 12 hours - 1 16 11
4 00 00	1 22 36	29.978		52.0	56.0	Mean - - - 1 21 16.5
6 00 00	1 21 41	29.986	61.0	48.0	52.0	
8 00 00	1 17 46	30.020		46.0	50.0	
10 00 00	1 18 54	29.992		46.0	48.0	
Noon	1 16 11	30.018	59.0	55.0	51.0	
14 00 00	1 16 35	90.038		59.0	60.0	
16 00 00	1 21 01	30.050		61.0	64.0	
18 00 00	1 22 03	30.050	60.0	63.0	68.0	
20 00 00	1 26 22	30.050		64.0	69.0	
22 00 00	1 26 14	30.022		70.0	74.0	

MAY 17, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 54	30.000	62.5	72.0	72.0	Maximum at 18 hours - 1 29 06
2 00 00	1 22 34	30.220		54.4	60.0	Minimum at 6 hours - 1 19 24
4 00 00	1 22 27	30.226		50.8	56.0	Mean - - - 1 24 15
6 00 00	1 19 24	30.008	62.5	51.0	54.0	
8 00 00	1 23 54	29.958		49.4	52.0	
10 00 00	1 23 19	29.950		48.0	51.0	
Noon	1 23 21	29.900	63 0	58.0	55.0	
14 00 00	1 24 11	29.860		63.8	62.0	
16 00 00	1 25 02	29.830		72.0	69.0	
18 00 00	1 29 06	29.770	69.0	76.5	76.0	
20 00 00	1 26 12	29.756		80.0	80.0	
22 00 00	1 21 16	29.672		82 0	81.0	

OBSERVATIONS AT WASHINGTON—1841.

MAY 18, 1841.							
Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.				
			Attached.	Air.	Magnetic observatory.		
h. m. s.	° ′ ″	Inches.	°	°	°		° ′ ″
0 00 00	1 20 42	29.698	74.0	77.5	79.0	Maximum at 20 hours	1 27 20
2 00 00	1 22 29	29.738		72.5	75.0	Minimum at 14 hours	1 17 44
4 00 00	1 21 30	29.784		64.0	68.0	Mean - -	1 22 32
6 00 00	1 20 43	29.764	71.5	61.0	64.0		
8 00 00	1 20 35	29.800		62.0	64.0		
10 00 00	1 20 00	29.840		57.0	59.0		
Noon	1 19 43	29.860	66.0	54.0	56.0		
14 00 00	1 17 44	29.868		64.0	64.0		
16 00 00	1 21 53	29.860		62.0	68.0		
18 00 00	1 25 17	29.832	65 0	64.0	68.0		
20 00 00	1 27 20	29 788		68.0	72.0		
22 00 00	1 26 23	29.750		69.0	74.0		
MAY 19, 1841.							
0 00 00	1 23 46	29.760	66.7	63.0	69.0	Maximum at 18 hours	1 25 14
2 00 00	1 23 24	29.782		60.0	64.0	Minimum at 12 hours	1 16 48
4 00 00	1 22 04	29.806		57.0	61.0	Mean - -	1 21 01
6 00 00	1 21 35	29.806	65.3	54.0	58.0		
8 00 00	1 20 58	29.796		52.5	56.0		
10 00 00	1 20 20	29.820		52.0	52.0		
Noon	1 16 48	29.832	64.0	55.0	52.0		
14 00 00	1 17 08	29.850		63.5	71.0		
16 00 00	1 20 10	29.846		62.0	71.0		
18 00 00	1 25 14	29.842	65.5	65.4	71 0		
20 00 00	1 25 13	29.840		67.0	72.0		
22 00 00	1 23 04	29.844		68.0	73.0		
MAY 20, 1841.							
0 00 00	1 21 28	29.842	66.0	66.0	70.0	Maximum at 20 hours	1 27 16
2 00 00	1 13 39	29.842		57.0	64.0	Minimum at 2 hours	1 13 39
4 00 00	1 16 05	29.924		53.0	58.0	Mean - -	1 20 27.5
6 00 00	1 20 39	29.932	63.5	51.0	56.0		
8 00 00	1 20 41	29.956		46.0	52.0		
10 00 00	1 18 54	29.960		45.0	50.0		
Noon	1 17 09	29.970	62.5	50.0	56.0		
14 00 00	1 14 15	29.980		59.0	60.0		
16 00 00	1 17 49	30.018		63.0	67.0		
18 00 00	1 24 14	30.012	65.5	65.6	71.0		
20 00 00	1 27 16	29.982		69.8	74.0		
22 00 00	1 24 24	29.964		75.4	76.0		

MAY 21, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 36	29.934	67.0	66.0	72.0	Maximum at 22 hours - 1 29 24
2 00 00	1 21 49	30.006		60.0	66.0	Minimum at 14 hours - 1 15 36
4 00 00	1 19 39	30.030		55.8	62.0	Mean - - - 1 22 30
6 00 00	1 20 34	30.044	64.5	54.0	58.0	
8 00 00	1 24 37	30.028		52.0	56.0	
10 00 00	1 19 09	30.028		50.0	54.0	
Noon	1 18 39	30.038	63.5	61.0	64.0	
14 00 00	1 15 36	30.034		65.0	65.0	
16 00 00	1 19 04	30.032		68.0	70.0	
18 00 00	1 24 04	30.024	68.3	74.0	84.0	
20 00 00	1 28 12	30.060		80.0	82.0	
22 00 00	1 29 24	29.972		84.0	84.0	

MAY 22, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 26 13	29.960	73.0	81.0	83.0	Maximum at 0 hours - 1 26 13
2 00 00						Minimum at 14 hours - 1 18 09
4 00 00	1 18 59	30.000		66.0	72.0	Mean - - - 1 22 11
6 00 00	1 20 53	29.980	71.2	62.0	67.0	
8 00 00	1 22 59	29.980		60.6	64.0	
10 00 00	1 21 44	29.970		57.0	62.0	
Noon	1 19 04	29.990	76.0	60.8	62.0	
14 00 00	1 18 09	30 024		62.4	62.0	
16 00 00	1 21 28	30.042		78.0	79.0	
18 00 00	1 21 23	30.042	75.0	83.0	84.0	
20 00 00	1 24 46	30.010		83.0	88.0	
22 00 00	1 24 30	29.980		71.0	76.0	

MAY 23, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 42	30.024	77.0	72.0	74.0	Maximum at 20 hours - 1 26 06
2 00 00	1 20 17	30.024		69.5	71.0	Minimum at 14 hours - 1 16 44
4 00 00	1 20 51	30.064		69.0	72.0	Mean - - - - 1 21 25
6 00 00	1 21 33	30.050	73.5	69.0	72 0	
8 00 00	1 20 28	30.050		68.0	72.0	
10 00 00	1 20 09	30.034		69.0	70.0	
Noon	1 17 56	30.060	73.0	70.0	70.0	
14 00 00	1 16 44	30.080		75.0	73.0	
16 00 00	1 18 04	30.102		77.0	77.0	
18 00 00	1 22 20	30.106	74.5	78.0	78.0	
20 00 00	1 26 06	30.074		79.0	77.0	
22 00 00	1 23 16	30.072		80.0	82.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
MAY 24, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 39	30.058	76.0	77.0	80.0	Maximum at 20 hours - 1 27 51
2 00 00	1 17 59	30.100		68.0	76.0	Minimum at 14 hours - 1 16 51
4 00 00	1 21 50	30.068		68.0	73.0	Mean - - - 1 22 21
6 00 00	1 22 10	30.050	74.5	65.5	70.0	
8 00 00	1 21 31	30.068		64.0	68.0	
10 00 00	1 20 08	30 068		64.0	67.0	
Noon	1 18 37	30.082	72.5	71.0	69.0	
14 00 00	1 16 51	30.104		75.0	73.0	
16 00 00	1 20 36	30.082		75.8	77.0	
18 00 00	1 26 47	30.052	76.5	78.8	81.0	
20 00 00	1 27 51	30.020		82.6	84.0	
22 00 00	1 24 34	29.994		83.0	85.0	
MAY 25, 1841.						
0 00 00	1 21 14	30.000	79.0	79.4	81.0	Maximum at 20 hours - 1 25 53
2 00 00	1 22 10	30.032		72.0	74.0	Minimum at 14 hours - 1 15 40
4 00 00	1 21 00	30.068		69.0	72.0	Mean - - - 1 20 46.5
6 00 00	1 21 00	30.040	76.5	67.0	69.0	
8 00 00	1 21 00	30.028		64.0	68.0	
10 00 00	1 20 06	30.034		65.0	68.0	
Noon	1 16 54	30.046	75.0	72.0	69.0	
14 00 00	1 15 40	30.058		74.0	74.0	
16 00 00	1 18 11	30.044		78.0	78.0	
18 00 00	1 22 44	30.020	77.0	82.2	84.0	
20 00 00	1 25 53	29.964		82.0	81.0	
22 00 00	1 23 58	29.924		67.4	70.5	
MAY 26, 1841.						
0 00 00	1 22 16	29.950	77.5	70.0	71.0	Maximum at 18 hours - 1 26 51
2 00 00	1 21 59	29.950		67.6	69.0	Minimum at 14 hours - 1 18 02
4 00 00	1 20 57	29.958		67.0	69.0	Mean - - - 1 22 26.5
6 00 00	1 19 24	29.916	74.5	67.0	69.0	
8 00 00	1 19 50	29.904		68.0	69.0	
10 00 00		29.920		67.0	69.0	
Noon	1 19 15	29.940	72.0	67.0	69.0	
14 00 00	1 18 02	29.964		63.4	67.0	
16 00 00	1 22 18	30.000		65.0	70.0	
18 00 00	1 26 51	30.000	70.5	69.0	68.0	
20 00 00	1 26 27	29.984		70.0	68.0	
22 00 00	1 26 30	29.964		71.0	69.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 27, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 46	29.936	71.5	67.0	67.0	Maximum at 18 hours - 1 24 52
2 00 00	1 23 09	29.954		65.0	66.0	Minimum at 6 hours - 1 15 34
4 00 00	1 18 47	29.976		64.0	66.0	Mean - - - 1 20 13
6 00 00	1 15 34	29.974	72.0	63.0	65.0	
8 00 00	1 24 36	29.926		63.0	64.0	
10 00 00	1 22 39	29.932		62.0	64.0	
Noon	1 20 39	29.956	71.0	63 0	64.0	
14 00 00	1 20 15	29.972		66.0	68.0	
16 00 00	1 23 01	30.010		67.5	67.0	
18 00 00	1 24 52	29.980	71.0	72.5	70.0	
20 00 00	1 23 52	29.972		73.0	72.0	
22 00 00	1 23 27	29.964		73.5	73.0	
MAY 28, 1841.						
0 00 00	1 20 02	29.964	72.0	69.5	70.0	Maximum at 18 hours - 1 25 13
2 00 00	1 19 21	29.978		67.0	69.0	Minimum at 12 hours - 1 17 07
4 00 00	1 21 53	30.000		64.0	68.0	Mean - - - 1 21 10
6 00 00	1 23 46	30.000	71.5	65.0	68.0	
8 00 00	1 20 19	30.000		64.0	67.0	
10 00 00	1 18 32	30.016		66.0	68.0	
Noon	1 17 07	30.030	73.0	68.0	68.0	
14 00 00	1 17 39	30.050		73.0	74.0	
16 00 00	1 22 24	30.036		76.0	74.0	
18 00 00	1 25 13	30.032	74.0	78.0	80.0	
20 00 00	1 24 54	30.016		72.0	74.0	
22 00 00	1 24 16	30.010		72.0	72.0	
MAY 29, 1841.						
0 00 00	1 20 46	30.006	73.2	72.0	74.0	Maximum at 18 hours - 1 24 29
2 00 00	1 20 54	29.988		67.0	70.0	Minimum at 12 hours - 1 18 50
4 00 00	1 22 35	30.016		65.0	69.0	Mean - - - 1 21 39.5
6 00 00	1 22 14	30.016	72.0	64.0	70.0	
8 00 00	1 21 14	29.974		63.0	71.5	
10 00 00	1 20 18	29.970		62.5	70.0	
Noon	1 18 50	29.980	71.2	65.0	68.0	
14 00 00	1 21 56	30.016		68.0	70.0	
16 00 00	1 24 19	30.000		73.6	73.0	
18 00 00	1 24 29	29.974	72.5	77.6	78.0	
20 00 00	1 24 03	29.934		79.6	80.0	
22 00 00	1 22 19	29.872		79.0	81.0	

OBSERVATIONS AT WASHINGTON—1841.

MAY 30, 1841.						
Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 39	29.872	74.0	75.0	79.0	Maximum at 18 hours - 1 26 03
2 00 00	1 22 16	29.894		70.6	73.0	Minimum at 12 hours - 1 16 34
4 00 00	1 22 16	29.900		66.0	68.0	Mean - - - 1 21 18.5
6 00 00	1 20 14	29.900	73.0	65.0	67.0	
8 00 00	1 20 48	29.832		63.4	65.0	
10 00 00	1 19 44	29.850		62.4	64.0	
Noon	1 16 34	29.900	72.0	64.0	68.0	
14 00 00	1 17 47	29.948		68.0	69.0	
16 00 00	1 23 42	29.972		67.4	68.0	
18 00 00	1 26 03	29.996	71.5	65.6	66.0	
20 00 00	1 24 56	29.998		64.2	66.0	
22 00 00	1 21 41	29.996		65.4	68.0	
MAY 31, 1841.						
0 00 00	1 21 12	29.990	70.5	63.0	66.0	Maximum at 18 hours - 1 29 14
2 00 00	1 21 44	30.000		62.4	64.0	Minimum at 14 hours - 1 15 46
4 00 00	1 22 16	30.044		61.0	64.0	Mean - - - 1 22 30
6 00 00	1 21 23	30.034	69.0	59.0	61.0	
8 00 00	1 21 14	30.022		56.0	59.0	
10 00 00	1 20 07	30.022		54.0	58.0	
Noon	1 16 14	30.030	67.0	56.8	59.0	
14 00 00	1 15 46	30.006		63.0	65.0	
16 00 00	1 24 40	30.020		67.0	72.0	
18 00 00	1 29 14	30.000	67.0	67.0	76.0	
20 00 00	1 26 55	29.950		71.0	80.0	
22 00 00	1 22 59	29.920		76.0	80.0	
JUNE 1, 1841.						
0 00 00	1 22 14	29.900		78.0	80.0	Maximum at 20 hours - 1 24 52
2 00 00	1 22 41	29.864		74.0	75.0	Minimum at 14 hours - 1 16 10
4 00 00	1 22 39	29.866	68.0	59.0	66.0	Mean - - - 1 20 31
6 00 00	1 21 54	29.850	67.5	54.4	59.0	
8 00 00	1 20 02	29.838	67.0	54.0	58.0	
10 00 00	1 19 00	29.840	65.5	54.0	56.0	
Noon	1 17 52	29.842	65.5	54.0	59.0	
14 00 00	1 16 10	29.846	66.0	72.0	71.0	
16 00 00	1 21 30	29.828	68.0	72.5	75.0	
18 00 00	1 24 34	29.816	71.0	76.0	78.0	
20 00 00	1 24 52	29.762	73.5	80.5	80.5	
22 00 00	1 21 43	29.756	76.0	82.0	83.0	

JUNE 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 23 32	29.750	78.0	84.0	82.0	Maximum at 20 hours - 1 28 20
2 00 00	1 21 53	29.750	74.5	74.0	78.0	Minimum at 14 hours - 1 18 15
4 00 00	1 20 19	29.800	74.0	66.0	70.0	Mean - - - 1 23 17.6
6 00 00	1 20 47	29.792	73.0	65.0	70.0	
8 00 00	1 20 12	29.784	73.0	63.0	69.0	
10 00 00	1 18 24	29.760	72.0	63.0	68.0	
Noon	1 18 20	29.783	73.0	72.0	72.0	
14 00 00	1 18 15	29.800	72.0	73.0	75.0	
16 00 00	1 21 10	29.792	74.0	78.0	80.0	
18 00 00	1 25 51	29.792	76.0	80.0	83.0	
20 00 00	1 28 20	29.746	77.0	83.0	86.0	
22 00 00	1 25 34	29.740	79.0	87.0	88.0	

JUNE 3, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 49	29.728	79.0	82.0	85.0	Maximum at 18 hours - 1 28 39
2 00 00	1 22 39	29.762	78.0	74.0	82.0	Minimum at 12 hours - 1 16 40
4 00 00	1 21 24	29.770	76.5	69.5	73.0	Mean - - - 1 22 39.5
6 00 00	1 22 15	29.770	75.0	67.0	70.0	
8 00 00	1 21 09	29.780	74.5	68.5	69.0	
10 00 00	1 19 39	29.818	74.5	64.5	66.0	
Noon	1 16 40	29.866	74.0	71.0	69.0	
14 00 00	1 18 10	29.950	73.5	73.0	76.0	
16 00 00	1 23 59	29.930	74.0	73.4	79.0	
18 00 00	1 28 39	29.900	75.0	76.0	81.0	
20 00 00	1 28 11	29.878	76.0	78.0	83.0	
22 00 00	1 24 42	29.854	76.0	77.0	83.0	

JUNE 4, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 05	29.854	76.0	74.0	80.0	Maximum at 20 hours - 1 27 39
2 00 00	1 21 11	29.860	75.0	70.0	73.0	Minimum at 14 hours - 1 13 06
4 00 00	1 19 06	29.876	72.0	61.0	66.0	Mean - - - 1 20 22.5
6 00 00	1 20 36	29.912	72.0	58.0	62.0	
8 00 00	1 19 55	29.936	71.0	58.0	55.0	
10 00 00	1 20 41	29.952	71.0	56.0	54.0	
Noon	1 14 34	29.970	71.0	61.0	60.0	
14 00 00	1 13 06	29.976	71.0	73.0	72.0	
16 00 00	1 21 31	29.968	73.5	75.4	78.0	
18 00 00	1 25 38	29.940	75.5	79.8	82.0	
20 00 00	1 27 39	29.896	79.0	83.0	84.0	
22 00 00	1 24 49	29.872	82.0	88.0	87.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JUNE 5, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 19	29.870	84.0	85.8	85.0	Maximum at 20 hours - 1 25 49
2 00 00	1 21 52	29.882	78.0	72.0	76.0	Minimum at 14 hours - 1 14 48
4 00 00	1 19 23	29.874	78.0	70.0	76.0	Mean - - - 1 20 18.5
6 00 00	1 19 59	29.856	75.5	68.5	72.5	
8 00 00	1 20 35	29.838	73.0	67.0	69.0	
10 00 00	1 19 13	29.846	74.0	65.0	69.0	
Noon	1 17 31	29.856	74.0	71.0	69.0	
14 00 00	1 14 48	29.856	74.5	77.0	75.0	
16 00 00	1 20 20	29.862	80.0	83.0	86.0	
18 00 00	1 24 09	29.862	84.0	85.0	90.0	
20 00 00	1 25 49	29.850	86.0	92.0	93.0	
22 00 00	1 25 04	29.822	87.0	90.0	93.0	
JUNE 6, 1841.						
0 00 00	1 21 52	29.822	87.0	88.0	90.0	Maximum at 20 hours - 1 28 54
2 00 00	1 21 39	29.818	84.0	80.0	84.0	Minimum at 12 hours - 1 15 44
4 00 00	1 22 26	29.842	82.0	75.6	79.0	Mean - - - 1 22 19
6 00 00	1 22 15	29.830	81.0	74.0	77.0	
8 00 00	1 20 31	29.824	80.0	70.0	73.0	
10 00 00	1 19 03	29.846	79.0	68.0	70.0	
Noon	1 15 44	29.868	78.0	74.0	73.0	
14 00 00	1 16 54	29.936	78.0	78.0	80.0	
16 00 00	1 21 15	29.982	79.0	77.5	82.0	
18 00 00	1 27 44	29.996	82.0	80.0	83.5	
20 00 00	1 28 54	29.964	82.0	84.0	85.0	
22 00 00	1 25 53	29.964	83.0	88.0	86.0	
JUNE 7, 1841.						
0 00 00	1 22 01	29.958	82.5	80.0	82.5	Maximum at 20 hours - 1 26 04
2 00 00	1 20 45	29.968	80.5	75.0	78.0	Minimum at 14 hours - 1 14 44
4 00 00	1 18 25	30.016	80.0	72.0	76.0	Mean - - - 1 20 24
6 00 00	1 20 00	30.016	78.0	70.0	74.0	
8 00 00	1 18 20	30.000	76.0	68.0	72.0	
10 00 00	1 17 53	29.972	76.0	68.0	71.0	
Noon	1 17 46	29.950	76.0	69.0	70.0	
14 00 00	1 14 44	29.980	76.0	72.0	76.0	
16 00 00	1 18 14	29.976	77.0	77.0	75.0	
18 00 00	1 24 43	29.968	78.0	80.0	84.0	
20 00 00	1 26 04	29.932	81.0	86.0	88.0	
22 00 00	1 25 39	29.888	84.0	88.0	88.0	

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JUNE 8, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 14	29.876	85.0	84.0	86.0	Maximum at 20 hours - 1 24 56
2 00 00	1 18 54	29.880	83.0	80.0	82.0	Minimum at 12 hours - 1 17 31
4 00 00	1 21 25	29.924	81.0	78.0	78.0	Mean - - - - 1 21 13.5
6 00 00	1 21 06.	29.880	79.0	72.0	74.0	
8 00 00	1 19 24	29.850	77.0	71.0	73.0	
10 00 00	1 19 24	29.868	78.0	70.0	72.0	
Noon	1 17 31	29.900	75.0	78.0	75.0	
14 00 00	1 18 13	29.938	79.0	85.0	85.0	
16 00 00	1 21 56	29.936	85.0	86.0	91.0	
18 00 00	1 24 00	29.930	86.0	89.4	95.0	
20 00 00	1 24 56	29.876	89.0	94.0	96.0	
22 00 00	1 22 19	29.852	89.0	94.0	95.0	
JUNE 9, 1841.						
0 00 00	1 21 57	29.864	87.0	85.0	87.0	Maximum at 20 hours - 1 25 05
2 00 00	1 21 37	29.864	84.0	81.0	83.0	Minimum at 12 hours - 1 16 56
4 00 00	1 21 37	29.932	82.0	76.0	78.0	Mean - - - - 1 21 00.5
6 00 00	1 20 54	29.896	82.0	74.0	76.0	
8 00 00	1 20 31	29.874	80.0	71.0	72.0	
10 00 00	1 19 01	29.860	79.0	70.0	72.0	
Noon	1 16 56	29.848	78.0	79.0	77.0	
14 00 00	1 17 04	29.894	80.0	86.0	86.0	
16 00 00	1 20 28	29.924	85.0	85.4	90.0	
18 00 00	1 24 02	29.900	88.0	93.0	88.6	
20 00 00	1 25 05	29.846	90.0	92.0	94.0	
22 00 00	1 24 39	29.846	90.0	93.0	94.0	
JUNE 10, 1841.						
0 00 00	1 19 45	29.852	89.0	89.0	90.0	Maximum at 18 hours - 1 27 12
2 00 00	1 22 31	29.900	87.0	83.4	85.0	Minimum at 14 hours - 1 17 40
4 00 00	1 21 51	29.926	85.0	79.0	81.0	Mean - - - - 1 22 26
6 00 00	1 17 42	29.900	83.0	75.0	76.0	
8 00 00	1 22 16	29.916	80.0	70.0	71.0	
10 00 00	1 22 05	29.930	78.0	67.0	69.0	
Noon	1 18 17	29.954	76.0	76.0	74.0	
14 00 00	1 17 40	29.954	79.0	79.0	81.0	
16 00 00	1 23 36	29.968	81.0	80.0	85.0	
18 00 00	1 27 12	29.960	82.0	82.0	88.0	
20 00 00	1 25 52	29.922	84.0	85.0	90.0	
22 00 00	1 23 30	29.876	85.0	86.0	90.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JUNE 11, 1841.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ′
0 00 00	1 20 56	29.866	85.0	86.0	87.0	Maximum at 18 hours - 1 24 07
2 00 00	1 22 36	29.874	84.0	76.0	79.0	Minimum at 12 hours - 1 16 41
4 00 00	1 22 20	29.854	83.0	70.0	72.0	Mean - - - - 1 20 24
6 00 00	1 22 43	29.832	79.0	65.0	68.0	
8 00 00	1 19 16	29.810	79.0	63.0	64.0	
10 00 00	1 22 32	29.786	77.0	62.0	64.0	
Noon	1 16 41	29.820	77.0	73.0	69.0	
14 00 00	1 16 50	29.810	77.0	84.0	81.0	
16 00 00	1 21 18	29.804	84.0	84.0	88.0	
18 00 00	1 24 07	29.762	86.0	87.0	92.0	
20 00 00	1 23 19	29.724	89.0	91.0	92.0	
22 00 00	1 22 34	29.688	92.0	93.0	94.0	
JUNE 12, 1841.						
0 00 60	1 22 34	29.678	91.0	88.0	90.0	Maximum at 18 hours - 1 26 00
2 00 00	1 22 34	29.688	84.0	82.0	83.0	Minimum at 4 hours - 1 15 59
4 00 00	1 15 59	29.686	85.0	79.0	81.0	Mean - - - - 1 20 59.5
6 00 00	1 21 43	29.666	84.0	76.0	79.0	
8 00 00	1 21 43	29.638	83.0	75.0	78.0	
10 00 00	1 20 09	29.638	82.0	73.5	76.0	
Noon	1 16 55	29.688	81 0	79.0	77.0	
14 00 00	1 17 50	29 710	83.0	84.0	86.0	
16 00 00	1 23 34	29.734	81.0	83.0	88.0	
18 00 00	1 26 00	29.734	85.0	87.0	90 0	
20 00 00	1 22 16	29.732	85.0	84.0	87 0	
22 00 00	1 23 12	29.708	84.0	84.4	85.0	
JUNE 13, 1841.						
0 00 00	1 22 31	29.708	84.0	81.0	84.0	Maximum at 18 hours - 1 29 25
2 00 00	1 21 57	29.734	83.0	75.0	81.0	Minimum at 14 hours - 1 15 39
4 00 00	1 22 06	29.738	80.0	70.0	76.0	Mean - - - - 1 22 32
6 00 00	1 22 06	29.734	80.0	68.0	74.0	
8 00 00	1 21 25	29.678	78.0	64.0	72.0	
10 00 00	1 20 44	29.690	79.0	66.0	70.0	
Noon	1 19 34	29.700	79.0	67.0	70.0	
14 00 00	1 15 39	29.712	77.0	73.0	76.0	
16 00 00	1 21 18	29.692	77.0	81 0	80.0	
18 00 00	1 29 25	29.696	80.0	81.8	86.0	
20 00 00	1 27 25	29.672	82.0	85 0	89.0	
22 00 00	1 23 46	29.662	83.0	85.0	88.0	

JUNE 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 49	29.668	83.0	80.0	84.0	Maximum at 18 hours - 1 27 09
2 00 00	1 23 07	29.684	80.0	73.0	76.0	Minimum at 12 hours - 1 17 21
4 00 00	1 22 12	29.706	76.0	70.0	73.0	Mean - - - - 1 22 15
6 00 00	1 21 57	29.668	76.0	69.0	72.0	
8 00 00	1 21 15	29.668	76.0	68.0	70.0	
10 00 00	1 19 04	29.674	76.0	67.0	70.0	
Noon	1 17 21	29.700	74.0	69.0	70.0	
14 00 00	1 19 30	29.708	75.0	79.0	76.0	
16 00 00	1 23 59	29.706	78.0	81.0	80.0	
18 00 00	1 27 09	29.692	79.0	83.0	81.0	
20 00 00	1 25 51	29.662	78.0	76.0	77.0	
22 00 00	1 22 31	29.640	77.0	69.0	72.0	

JUNE 15, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 49	29.680	76.0	71.0	73.0	Maximum at 18 hours - 1 30 36
2 00 00	1 22 38	29.630	76.0	70.0	72.0	Minimum at 12 hours - 1 13 24
4 00 00	1 22 00	29.634	75.0	68.0	70.0	Mean - - - 1 22 00
6 00 00	1 22 13	29.632	76.0	68.8	70.0	
8 00 00	1 20 49	29.632	76.0	68.4	70.0	
10 00 00	1 18 01	29.636	76.0	66.0	68.0	
Noon	1 13 24	29.670	75.0	67.0	68.0	
14 00 00	1 15 31	29.730	75.0	71.0	75.0	
16 00 00	1 26 59	29.746	75.0	73.0	80.0	
18 00 00	1 30 36	29.748	75.0	76.0	80.0	
20 00 00	1 27 34	29.744	75.0	77.0	80.0	
22 00 00	1 26 34	29.750	75.0	78.0	80.0	

JUNE 16, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 18 44	29.784	75.0	73.0	78.0	Maximum at 18 hours - 1 26 16
2 00 00	1 23 14	29.812	74.0	66.0	74.0	Minimum at 12 hours - 1 16 44
4 00 00	1 22 30	29.822	73.0			Mean - - - 1 21 30
6 00 00	1 24 21	29.840	72.0	61.0	66.0	
8 00 00	1 24 56	29.822	70.0	58.5	63.0	
10 00 00	1 20 24	29.836	70.0	57.5	60.0	
Noon	1 16 44	29.918	70.0	67.0	65.0	
14 00 00	1 17 55	29.962	70.5	69.0	73.0	
16 00 00	1 22 00	29.968	71.0	70.0	77.0	
18 00 00	1 26 16	29.938	72.0	73.0	80.0	
20 00 00	1 24 27	29.922	73.0	76.0	80.0	
22 00 00	1 23 06	29.922	74.0	79.0	80.0	

OBSERVATIONS AT WASHINGTON—1841.

JUNE 17, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 36	29.940	76.0	75.0	79.0	Maximum at 20 hours - 1 30 38
2 00 00	1 23 21	29.948	74.0	70.0	72.0	Minimum at 14 hours - 1 16 44
4 00 00	1 21 34	29.978	73.0	62.0	64.0	Mean - - - 1 23 41
6 00 00	1 21 34	29.978	73.0	58.0	62.0	
8 00 00	1 21 54	29.980	71.0	58.0	60.0	
10 00 00	1 23 10	29.988	72.0	60.0	60.0	
Noon	1 17 39	29.990	72.0	66.0	66.0	
14 00 00	1 16 44	30.010	72.0	76.0	74.0	
16 00 00	1 23 55	30.016	71.3	78.0	76.0	
18 00 00	1 30 08	30.016	74.0	77.6	78.0	
20 00 00	1 30 38	29.978	74.0	79.0	76.0	
22 00 00	1 24 19	29.950	74.0	78.0	76.0	

JUNE 18, 1841.

0 00 00	1 24 14	29.976	74.0	75.0	75.0	Maximum at 16 hours - 1 27 20
2 00 00	1 21 13	29.988	74.0	71.0	72.0	Minimum at 4 hours - 1 17 04
4 00 00	1 17 04	29.968	74.0	70.0	71.0	Mean - - - 1 22 12
6 00 00	1 20 29	29.950	73.0	68.0	70.0	
8 00 00	1 23 45	29.944	73.0	67.0	69.0	
10 00 00	1 19 48	29.930	73.0	67.0	69.0	
Noon	1 19 35	29.922	73.0	67.0	69.0	
14 00 00	1 19 07	29.926	73.0	70.0	70.0	
16 00 00	1 27 20	29.900	73.0	74.0	71.0	
18 00 00	1 27 02	29.874	75.0	79.0	76.0	
20 00 00	1 24 09	29.866	76.0	82.0	80.0	
22 00 00		29.840	77.0	83.0	82.0	

JUNE 19, 1841.

0 00 00	1 15 54	29.840	77.0	75.0	78.0	Maximum at 20 hours - 1 24 58
2 00 00	1 21 37	29.840	76.0	70.0	73.0	Minimum at 0 hours - 1 15 54
4 00 00	1 22 44	29.844	75.0	69.0	70.0	Mean - - - 1 20 26
6 00 00	1 22 57	29.844	75.0	66.0	68.0	
8 00 00	1 23 31	29.848	75.0	64.0	66.0	
10 00 00	1 20 32	29.850	74.0	61.0	64.0	
Noon	1 17 39	29.874	73.0	64.0	66.0	
14 00 00	1 18 36	29.884	71.0	64.0	66.0	
16 00 00	1 21 57	29 872	72.0	71.0	70.0	
18 00 00	1 24 57	29.868	73.0	76.0	76.0	
20 00 00	1 24 58	29.850	75.0	78.0	78.0	
22 00 00	1 24 01	29.854	75.0	78.0	80.0	

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
JUNE 20, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 14	29.854	75.0	74.0	74.0	Maximum at 20 hours - 1 27 18
2 00 00	1 23 14	29.850	74.0	69.0	72.0	Minimum at 14 hours - 1 16 39
4 00 00	1 22 46	29.884	73.0	66.0	69.0	Mean - - - - 1 21 58.5
6 00 00	1 21 42	29.868	73.0	64.0	66.0	
8 00 00	1 21 42	29.882	73.0	63.0	65.0	
10 00 00	1 19 51	29.870	72.5	64.0	66.0	
Noon	1 17 18	29.870	72.0	66.0	66.0	
14 00 00	1 16 39	29.930	71.0	70.0	70.0	
16 00 00	1 20 39	29.910	73.0	77.0	77.0	
18 00 00	1 25 58	29.920	75.0	79.0	79.0	
20 00 00	1 27 18	29.890	75.0	84.0	82.0	
22 00 00	1 24 41	29.868	77.0	82.0	81.0	
JUNE 21, 1841.						
0 00 00	1 23 20	29.884	78 0	79.0	80.0	Maximum at 20 hours - 1 27 29
2 00 00	1 20 52	29.908	77.0	74.0	75.0	Minimum at 14 hours - 1 15 34
4 00 00	1 22 34	29.920	75.0	69.0	72.0	Mean - - - - 1 21 31.5
6 00 00	1 22 34	29.930	75.0	67.0	69.0	
8 00 00	1 21 53	29.930	75.0	68.0	70.0	
10 00 00	1 20 17	29.950	75.0	68.0	70.0	
Noon	1 16 42	29.962	75.0	68.0	70.0	
14 00 00	1 15 34	30.000	75.0	72.0	72.0	
16 00 00	1 21 16	30.040	74.0	75.0	74.0	
18 00 00	1 24 24	30.040	75.0	76.0	75.0	
20 00 00	1 27 29	30.036	75.0	79.0	76 0	
22 00 00	1 25 26	30.040	75.0	75.4	76 0	
JUNE 22, 1841.						
0 00 00	1 22 30	30.050	75.0	72.0	74.0	Maximum at 18 hours - 1 26 18
2 00 00	1 22 12	30.048	73.0	69.0	70.0	Minimum at 14 hours - 1 14 27
4 00 00	1 21 02	30.054	73.0	69.0	71.0	Mean - - - - 1 20 22.5
6 00 00	1 18 20	30.042	73.0	68.0	70.0	
8 00 00	1 20 00	30.016	72.0	66.0	70.0	
10 00 00	1 18 47	30.004	72.0	66.0	70.0	
Noon	1 15 15	30.016	72.0	70.0	70.0	
14 00 00	1 14 27	29.980	73.0	71.0	72.0	
16 00 00	1 20 03	30.022	74.0	73.0	74.0	
18 00 00	1 26 18	29.984	74.0	74.0	76 0	
20 00 00	1 26 14	29.950	76.0	82.0	80.0	
22 00 00	1 26 14	29.942	77.0	82.0	82.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
JUNE 23, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 53	29.950	76.0	76.0	78.0	Maximum at 20 hours - 1 28 45
2 00 00	1 18 34	29.896	76.0	72.0	76.0	Minimum at 14 hours - 1 14 59
4 00 00	1 20 46	29.884	76.0	72.0	76.0	Mean - - 1 21 52
6 00 00	1 19 10	29.854	76.0	72.0	74.0	
8 00 00	1 20 42	29.820	76.0	72.6	75.0	
10 00 00	1 20 01	29.800	76.0	72.6	75.0	
Noon	1 15 46	29.820	76.0	74.0	75.0	
14 00 00	1 14 59	29.832	76.0	78 0	77.0	
16 00 00	1 18 57	29.832	77.0	82.0	82.0	
18 00 00	1 24 52	29.806	80.0	84.5	87.0	
20 00 00	1 28 45	29.782	80.0	88.0	90.0	
22 00 00	1 25 36	29.766	82.0	93.0	92.0	
JUNE 24, 1841.						
0 00 00	1 19 45	29.754	82.0	87.0	86.0	Maximum at 8 hours - 1 26 10
2 00 00	1 21 27	29.790	80.0	70.0	78.0	Minimum at 14 hours - 1 16 47
4 00 00	1 18 36	29.810	78.0	68.0	72.0	Mean - - - 1 21 28.5
6 00 00	1 17 29	29.812	76.0	68.0	72.0	
8 00 00	1 26 10	29.812	75.0	68.0	72.0	
10 00 00	1 22 46	29.832	77.0	71.0	74.0	
Noon	1 19 18	29.840	77.0	74.0	75.0	
14 00 00	1 16 47	29.844	77.0	76.0	76.0	
16 00 00	1 19 57	29.837	78.0	80.0	86.0	
18 00 00	1 23 51	29.834	86.0	83.0	82.0	
20 00 00	1 25 39	29.828	84.0	86.0	88.0	
22 00 00	1 24 09	29.810	85.0	88.0	88.0	
JUNE 25, 1841.						
0 00 00	1 21 17	29.819	85.0	85.0	86.0	Maximum at 20 hours - 1 27 12
2 00 00	1 20 29	29.840	83.0	81.0	82.0	Minimum at 14 hours - 1 12 24
4 00 00	1 19 43	29.836	82.0	76.0	79.0	Mean - - - 1 19 48
6 00 00	1 17 59	29.850	81.0	75.0	76.0	
8 00 00	1 14 32	29.848	81.0	74.0	74.0	
10 00 00	1 22 45	29.854	80.0	74.0	76.0	
Noon	1 13 54	29.880	80.0	74.0	78.0	
14 00 00	1 12 24	29.868	77.0	75.0	76.0	
16 00 00	1 21 05	29.882	77.0	79.0	79.0	
18 00 00	1 24 16	29.882	78.0	83.0	82.0	
20 00 00	1 27 12	29.840	79.0	80.0	80.0	
22 00 00	1 24 55	29.826	79.0	80.0	82.0	

JUNE 26, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 27	29.800	79.0	78.0	80.0	Maximum at 20 hours - 1 25 45
2 00 00	1 23 25	29.812	79.0	75.0	80 0	Minimum at 4 hours - 1 13 37
4 00 00	1 13 37	29.794	79.0	72.5	77.0	Mean - - - 1 19 41
6 00 00	1 21 31	29.794	78.0	72.0	76.0	
8 00 00	1 21 10	29.794	78.0	72.0	75.0	
10 00 00	1 19 25	29.804	77.0	71.0	74.0	
Noon	1 17 05	29.822	76.0	74.0	74.0	
14 00 00	1 16 44	29.822	77.0	75.0	76.0	
16 00 00	1 21 24	29.834	77.0	79.0	78.0	
18 00 00	1 24 30	29.832	79.0	84.0	81.0	
20 00 00	1 25 45	29.808	80.0	83.0	80.0	
22 00 00	1 22 07	29.808	80.0	82.0	80.0	

JUNE 27, 1841.

0 00 00	1 21 10	29.794	79.5	72.0	78 0	Maximum at 20 hours - 1 24 53
2 00 00	1 21 19	29.818	79.0	74.4	76.0	Minimum at 12 hours - 1 17 59
4 00 00	1 22 26	29.812	77.0	73.0	74.0	Mean - - - 1 21 26
6 00 00	1 20 34	29.820	77.0	73.0	74.0	
8 00 00	1 22 34	29.812	77.0	73.0	74.0	
10 00 00	1 18 55	29.822	77.0	72.0	72.0	
Noon	1 17 59	29.840	76.0	72.0	72.0	
14 00 00	1 18 40	29.850	76.0	73.0	73.0	
16 00 00	1 22 53	29.850	77.0	76.0	76.0	
18 00 00	1 24 52	29.850	77.0	81.0	78.0	
20 00 00	1 24 53	29.826	79.0	83.0	80.0	
22 00 00	1 23 36	29.826	80.0	84.0	80.0	

JUNE 28, 1841.

0 00 00	1 22 16	29.850	75.0	68.0	70.0	Maximum at 18 hours - 1 25 41
2 00 00	1 23 08	29.850	73.0	69.0	70.0	Minimum at 14 hours - 1 15 54
4 00 00	1 21 28	29.872	76.0	67.0	68.0	Mean - - - 1 20 47.5
6 00 00	1 20 44	29.884	75.0	66.0	68.0	
8 00 00	1 20 17	29.884	75.0	65.0	67.0	
10 00 00	1 19 37	29.894	75.0	64.0	66.0	
Noon	1 16 49	29.946	76.0	70.0	70.0	
14 00 00	1 15 54	29.962	75.0	77.0	78.0	
16 00 00	1 21 42	29.976	76.5	77.0	79.0	
18 00 00	1 25 41	29.976	79.0	80.5	83.0	
20 00 00	1 25 30	29.976	81.0	83.0	85.0	
22 00 00	1 23 55	29.956	81.0	86.5	86.0	

OBSERVATIONS AT WASHINGTON—1841.

JUNE 29, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 35	29.962	83.5	85.0	84.0	Maximum at 20 hours - 1 26 03
2 00 00	1 18 42	29.966	81.0	77.5	78.0	Minimum at 14 hours - 1 13 48
4 00 00	1 21 32	30.006	80.0	73.0	77.0	Mean - - - 1 19 56.5
6 00 00	1 22 02	30.006	78.0	71.0	74.0	
8 00 00	1 20 45	30.006	77.0	69.0	73.0	
10 00 00	1 19 37	30.028	76.0	65.0	72.0	
Noon	1 17 35	30.042	76.0	72.0	74.0	
14 00 00	1 13 48	30.050	77.0	82.0	80.0	
16 00 00	1 17 11	30.048	81.0	82.5	84.0	
18 00 00	1 22 57	30.024	84.0	85.0	89.0	
20 00 00	1 26 03	29.980	87.0	88.0	91.0	
22 00 00	1 25 02	29.956	87.0	86.0	90.0	

JUNE 30, 1841.

0 00 00	1 17 58	29.962	87.0	86.0	88.0	Maximum at 20 hours - 1 25 20
2 00 00	1 21 01	29.964	85.0	81.0	83.0	Minimum at 14 hours - 1 14 56
4 00 00	1 22 49	29.992	83.5	76.0	78.0	Mean - - - 1 20 08
6 00 00	1 19 11	29.974	81.0	74.0	76.0	
8 00 00	1 20 01	29.960	80.0	72.0	75.0	
10 00 00	1 18 37	29.968	79.0	70.0	72.0	
Noon	1 15 57	29.968	78.0	78.5	76.0	
14 00 00	1 14 56	30.006	79.0	86.5	84.0	
16 00 00	1 20 21	30.000	84.0	85.0	89.0	
18 00 00	1 25 09	29.980	86.0	87.0	91.0	
20 00 00	1 25 20	29.930	89.0	90.0	92.0	
22 00 00	1 25 10	29.874	89.0	92.0	92.0	

JULY 1, 1841.

0 00 00	1 23 33	29.856	90.0	90.0	90.0	Maximum at 20 hours - 1 29 13
2 00 00	1 22 11	29.860	87.0	82.0	84.0	Minimum at 14 hours - 1 16 24
4 00 00	1 22 19	29.860	85.0	79.0	81.0	Mean - - - 1 22 48.5
6 00 00	1 21 07	29.850	84.0	77.0	80.0	
8 00 00	1 20 54	29.824	82.0	74.0	78.0	
10 00 00	1 20 54	29.840	80.0	72.0	74.0	
Noon	1 16 36	29.830	79.0	80.0	78.0	
14 00 00	1 16 24	29.850	82.0	84.0	84.0	
16 00 00	1 18 37	29.860	86.0	86.0	89.0	
18 00 00	1 25 40	29.860	89.0	89.0	92.0	
20 00 00	1 29 13	29.832	90.0	94.0	93.0	
22 00 00	1 26 24	29.800	90.0	94.0	94.0	

JULY 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 22	29.832	86.0	82.0	86.0	Maximum at 20 hours - 1 27 42
2 00 00	1 20 09	29.822	82.0	73.0	82.0	Minimum at 14 hours - 1 15 03
4 00 00	1 21 33	29.812	82.0	70.0	78.0	Mean - - - 1 21 22.5
6 00 00	1 21 26	29.824	81.0	73.0	76 0	
8 00 00	1 21 26	29.822	80.0	71.0	76.0	
10 00 00	1 20 41	29.836	80.0	71.0	76.0	
Noon	1 16 59	29 858	77.0	75.0	76.0	
14 00 00	1 15 03	29.862	79.0	78.0	82.0	
16 00 00	1 19 12	29.892	80.5	80.0	83.0	
18 00 00	1 26 55	29.888	81.0	83.0	85.0	
20 00 00	1 27 42	29.890	81.0	82.5	84.0	
22 00 00	1 25 22	29.868	81.0	83.0	84.0	

JULY 3, 1841.

0 00 00	1 24 39	29.868	80.0	78.5	80.0	Maximum at 20 hours - 1 30 01
2 00 00	1 21 30	29.878	79.0	72.5	75.0	Minimum at 14 hours - 1 15 31
4 00 00	1 22 35	29.900	77.0	71.0	72.0	Mean - - - 1 22 46
6 00 00	1 22 40	29.932	77.0	69.0	71.0	
8 00 00	1 22 59	29.932	77.0	68.0	70.0	
10 00 00	1 21 44	29 918	73.0	67.0	69.0	
Noon	1 15 57	29.950	69.0	64.0	66.0	
14 00 00	1 15 31	29.958	72.0	68.0	70.0	
16 00 00	1 21 52	29.950	74.0	70.0	77.0	
18 00 00	1 28 07	29.942	75 0	73.0	79.1	
20 00 00	1 30 01	29.912	76.0	80.0	81.0	
22 00 00	1 25 54	29.888	78.0	78.0	82.0	

JULY 4, 1841.

0 00 00	1 22 35	29.884	78.0	78.0	81.0	Maximum at 20 hours - 1 27 28
2 00 00	1 21 27	29.894	74.0	74.0	77.0	Minimum at 14 hours - 1 16 14
4 00 00	1 23 18	29.942	75.0	66.0	69.0	Mean - - - 1 21 51
6 00 00	1 21 29	29.952	75.0	63.5	66.0	
8 00 00	1 21 56	29.960	73.0	62.0	63.0	
10 00 00	1 21 09	29.966	72.0	60.0	62.0	
Noon	1 16 46	29.970	72.0	64.5	64.0	
14 00 00	1 16 14	30.100	71 5	68.0	70.0	
16 00 00	1 21 54	30 000	72.0	69.0	76.0	
18 00 00	1 24 41	29.970	73.0	75.0	80.0	
20 00 00	1 27 28	29.964	76.0	75 0	80.0	
22 00 00	1 26 29	29.910	76.0	79.0	80.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 5, 1841.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 40	29.916	78.0	76.0	78.0	Maximum at 20 hours - 1 27 43
2 00 00	1 19 01	29.908	76.0	72.0	74.0	Minimum at 14 hours - 1 16 00
4 00 00	1 18 29	29.912	73.0	66.0	69.0	Mean - - - 1 21 51.5
6 00 00	1 16 11	29.886	73.0	66.0	69.0	
8 00 00	1 21 58	29 850	73.0	67.0	70.0	
10 00 00	1 21 58	29 850	73.0	67.0	69.0	
Noon	1 18 22	29.850	75.0	73.0	71.0	
14 00 00	1 16 00	29.850	75.0	78.0	74.0	
16 00 00	1 17 54	29 850	76.0	79.0	82.0	
18 00 00	1 25 01	29.832	76.0	82.0	86.0	
20 00 00	1 27 43	29.800	79.0	85.0	86.0	
22 00 00	1 27 19	29.718	80.0	86.0	86.0	
JULY 6, 1841.						
0 00 00	1 22 00	29.728	83.0	83.0	84.0	Maximum at 20 hours - 1 26 53
2 00 00	1 17 48	29.730	82.0	79.0	80.0	Minimum at 4 hours - 1 11 56
4 00 00	1 11 56	29.746	80.0	75.0	77 0	Mean - - - 1 19 24.5
6 00 00	1 17 04	29.746	79.0	74.0	76.0	
8 00 00	1 14 08	29.730	79.0	70.0	74.0	
10 00 00	1 18 54	29.740	78.0	67.4	70.0	
Noon	1 19 36	29.768	76.0	75.0	74.0	
14 00 00	1 16 14	29.774	77.0	80.0	84.0	
16 00 00	1 19 24	29.788	79.5	82.0	88.0	
18 00 00	1 24 46	29.780	82.0	85.0	89.0	
20 00 00	1 26 53	29.750	84.0	89.0	90.0	
22 00 00	1 25 37	29.728	85.5	91.0	89.0	
JULY 7, 1841.						
0 00 00	1 22 54	29.696	86.0	87.0	86.0	Maximum at 20 hours - 1 26 58
2 00 00	1 23 49	29 712	83.0	79 0	81.0	Minimum at 14 hours - 1 16 35
4 00 00	1 21 46	29.750	82.0	73.0	76.0	Mean - - - 1 21 46.5
6 00 00	1 17 55	29.766	80.0	74.0	74.0	
8 00 00	1 22 48	29.766	80.0	71.0	72 0	
10 00 00	1 20 32	29.772	80.0	72.0	73.0	
Noon	1 20 46	29.800	79.0	73 0	74.0	
14 00 00	1 16 35	29.830	80.0	78.0	76.0	
16 00 00	1 19 18	29.834	79.0	77.0	76.0	
18 00 00	1 22 47	29.842	78.0	73.0	74.0	
20 00 00	1 26 58	29.834	78.0	78.0	79.0	
22 00 00	1 25 02	29.808	79.0	80.0	80.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 8, 1841.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 17	29.796	78.0	68.0	72.0	Maximum at 20 hours - 1 27 58
2 00 00	1 21 30	29.818	77.0	67.0	69.0	Minimum at 14 hours - 1 16 13
4 00 00	1 20 27	29.844	76.5	65.0	67.0	Mean - - 1 22 05.5
6 00 00	1 21 45	29.844	75.5	62.5	65.0	
8 00 00	1 21 52	29.850	73.0	63.0	65.0	
10 00 00	1 21 57	29.862	74.0	60.0	62.0	
Noon	1 17 55	29.918	73.5	63.0	62.0	
14 00 00	1 16 13	29.950	73.0	67.0	69.0	
16 00 00	1 20 46	29.960	71.0	69.0	74.0	
18 00 00	1 24 49	29.960	73.0	72.0	76.0	
20 00 00	1 27 58	29.960	74.0	74.0	78.0	
22 00 00	1 25 34	29.960	75.0	74.0	78.0	
JULY 9, 1841.						
0 00 00	1 22 21	29.958	76.0	76.0	78.0	Maximum at hours
2 00 00	1 21 56	29.984	75.0	70.0	72.0	Minimum at hours
4 00 00	1 21 46	30.004	73.0	64.0	68.0	Mean - -
6 00 00	1 16 49	30 010	71.0	62.0	64.0	
8 00 00	1 21 22	30 010	71.0	62.0	64.0	REMARKS. At 15 hours dismounted the instrument to clean and adjust. The runs of the micrometers and the suspension in perfect adjustment; needle 1′ 05″ out of centre; corrected it, and re examined the meridian mark by high and low stars.
10 00 00	1 20 07	30.040	71.0	63.0	64 0	
Noon	1 18 14	30.066	71.0	68.0	66.0	
14 00 00	1 17 36	30.080	71.0	75.0	74.0	
16 00 00		30.063	74.0			
18 00 00		30.050	76.0			
20 00 00		30.038	79.0			
22 00 00		30.012	80.0			
JULY 10, 1841.						
0 00 00		29.992	78.0			Maximum at 20 hours - 1 30 30
2 00 00	1 24 58	29 970	77.0	75.0	78.0	Minimum at 14 hours - 1 18 07
4 00 00	1 25 30	29.964	75.0	73.0	77.0	Mean - - - 1 24 18.5
6 00 00	1 24 09	29.900	75.0	70.0	76.0	
8 00 00	1 23 21	29.846	74.0	69.0	75.0	
10 00 00	1 22 31	29.840	73.0	69.0	71.0	
Noon	1 21 16	29.816	73.0	69.0	70.0	
14 00 00	1 18 07	29.836	72.0	70.0	70.0	
16 00 00	1 22 46	29.846	75.5	77.5	78.0	
18 00 00	1 29 14	29.810	78.0	81.0	81.0	
20 00 00	1 30 30	29.856	81.0	82.5	84.0	
22 00 00	1 29 18	29.856	83.0	85.0	86.0	

OBSERVATIONS AT WASHINGTON—1841.

JULY 11, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 26 38	29.874		82.0	83.0	Maximum at 20 hours - 1 28 36
2 00 00	1 26 20	29.890		75.0	80.0	Minimum at 12 hours - 1 20 45
4 00 00	1 25 19	29.926	76.0	70.0	74.0	Mean - - - 1 24 40.5
6 00 00	1 24 46	29.973	73.0	66.0	70.0	
8 00 00	1 21 21	29.978	73.0	64.0	70.0	
10 00 00	1 21 40	29.982	72.0	61.0	69.0	
Noon	1 20 45	29.982	71.0	63.0	72.0	
14 00 00	1 21 12	29.988	70.0	65.0	72.0	
16 00 00	1 22 19	29.968	72.0	75.0	74.0	
18 00 00	1 27 25	29.946	73.0	78.0	76.0	
20 00 00	1 28 36	29.908	73.5	78.5	76.0	
22 00 00	1 27 32	29.860	73.5	76.0	74.0	

JULY 12, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 25 29	29.832	72.5	72.0	72.0	Maximum at 20 hours - 1 26 43
2 00 00	1 19 16	29.824	73.5	67.0	68.0	Minimum at 6 hours - 1 18 36
4 00 00	1 22 23	29.838	74.0	65.0	66.5	Mean - - - 1 22 39.5
6 00 00	1 18 36	29.826	73.0	63.0	64.5	
8 00 00	1 23 23	29.792	73.0	61.0	62 5	
10 00 00	1 21 35	29.758	72.0	60.0	62.0	REMARKS.
Noon	1 22 36	29.800	71.0	62.5	62.0	
14 00 00	1 20 38	29.818	72.5	74.0	74.0	At 18*h.*, re examined the adjustments of the needle.
16 00 00	1 21 59	29.810	74.0	77.0	79.0	
18 00 00		29.764	74.0	80.0	82.0	
20 60 00	1 26 43	29.750	76.0	83.0	82.0	
22 00 00	1 25 41	29.754	77.0	85.0	84.0	

JULY 13, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 57	29.762	76.0	77.0	80.0	Maximum at 20 hours - 1 26 30
2 00 00	1 23 32	29.792	76.0	74.0	78.0	Min. at 12 and 14 hours 1 20 19
4 00 00	1 22 56	29.800	75.5	71.0	75.0	Mean - - - - 1 23 24.5
6 00 00	1 23 18	29.800	75.0	69.0	73.0	
8 00 00	1 24 41	29.780	75.0	70.0	74.0	
10 00 00	1 21 45	29.796	74.0	68.5	72.0	
Noon	1 20 19	29.826	74.0	71.0	72 0	
14 00 00	1 20 19	29.826	75.0	82.0	80.0	
16 00 00	1 21 28	29.850	78.0	85.0	85.0	
18 00 00	1 25 51	29.850	78.0	85.0	87.0	
20 00 00	1 26 30	29.840	83.0	89.0	89.0	
22 00 00	1 25 31	29.816	81.0	90.0	90.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 14, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 25 06	29.810	86.0	85.0	88.0	Maximum at 18 hours - 1 26 10
2 00 00	1 25 18	29.810	83.5	81.0	88.0	Minimum at 12 hours - 1 18 03
4 00 00	1 24 09	29.834	83.0	78.0	80.0	Mean - - - 1 22 06.5
6 00 00	1 22 54	29.844	81.0	77.0	79.0	
8 00 00	1 21 52	29.814	80.0	76.0	78.0	
10 00 00	1 19 43	29.822	79 0	76.0	78.0	
Noon	1 18 03	29.830	79.0	78.0	78.0	
14 00 00	1 18 04	29.854	81.0	86.0	83.0	
16 00 00	1 21 11	29.866	83.0	87.5	90.5	
18 00 00	1 26 10	29.848	86.5	92.0	94.0	
20 00 00	1 25 26	29.820	89.5	87.0	96.0	
22 00 00	1 24 34	29.780	92.0	89.0	96.0	
JULY 15, 1841.						
0 00 00	1 22 10	29.782	88.5	84.0	92.0	Maximum at 10 hours - 1 29 09
2 00 00	1 21 22	29.854	85.5	78.5	86.0	Minimum at 14 hours - 1 19 06
4 00 00	1 19 41	29.800	84.0	78.0	80.0	Mean - - - 1 24 07.5
6 00 00	1 21 34	29.800	84.0	78.0	78.0	
8 00 00	1 19 42	29.800	81.0	73.0	78.0	
10 00 00	1 29 09	29.822	83.0	74.0	76.0	
Noon	1 19 19	29.820	81.0	76.0	78.0	
14 00 00	1 19 06	29.872	81.0	78.0	80.0	
16 00 00	1 22 21	29.888	83.0	83.0	85.0	
18 00 00	1 25 40	29 896	85.0	84.5	88.0	
20 00 00	1 27 02	29.860	86.0	86.0	89.0	
22 00 00	1 24 36	29.836	88.0	89 0	90.0	
JULY 16, 1841.						
0 00 00	1 23 11	29.836	88.5	89.0	89.0	Maximum at 18 hours - 1 25 53
2 00 00	1 22 50	29 852	86.0	80.0	83.0	Minimum at 14 hours - 1 17 02
4 00 00	1 23 36	29.850	84.0	74.0	78.0	Mean - - - 1 21 27.5
6 00 00	1 22 10	29.856	78 0	72.0	75.0	
8 00 00	1 21 18	29.818	78.0	69.0	72.0	
10 00 00	1 20 45	29.824	77.0	69.5	72.0	
Noon	1 17 41	29.842	75.0	73 5	73.0	
14 00 00	1 17 02	29 860	75.5	75.0	79.0	
16 00 00						
18 00 00	1 25 53	29.870	79.0	78.0	82.0	
20 00 00	1 24 11	29.854	79.0	80.0	84.0	
22 00 00	1 22 16	29.858	80.0	81.0	83.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 17, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 27	29.860	79.0	76.0	79.0	Maximum at 20 hours - 1 27 48
2 00 00	1 23 23	29.860	79.0	72.0	75.0	Minimum at 12 hours - 1 20 27
4 00 00	1 23 24	29.962	77.0	69.0	70.0	Mean - - - - 1 24 07.5
6 00 00	1 23 24	29.962	76.5	66.0	67.0	
8 00 00	1 23 04	29.974	76.0	64.0	65.0	
10 00 00	1 22 39	30.000	77 0	59.0	60.0	
Noon	1 20 27	30.020	76.5	65.0	68.0	
14 00 00	1 21 05	30.054	72.0	70.0	73.0	
16 00 00	1 26 04	30.044	74.0	72.0	78.0	
18 00 00	1 27 44	30.022	76 0	77.0	80.0	
20 00 00	1 27 48	30.020	76.0	79.0	82.0	
22 00 00	1 24 35	29.982	77.0	79.0	82.0	
JULY 18, 1841.						
0 00 00	1 22 29	29.966	78.0	80.0	80.0	Maximum at 18 hours - 1 29 47
2 00 00	1 24 05	29.992	77.0	67.0	74.0	Minimum at 12 hours - 1 18 28
4 00 00	1 24 22	29.980	75.0	65.0	68.0	Mean - - - - 1 24 07.5
6 00 00	1 23 13	29.980	74.0	62.0	66.0	
8 00 00	1 22 37	29.980	71.0	60.0	64.0	
10 00 00	1 21 58	29.980	72.0	59.0	61.0	
Noon	1 18 28	29.980	73.0	67.0	65.0	
14 00 00	1 18 58	29.980	73.0	73.0	74.0	
16 00 00	1 23 48	30.012	74.0	77.0	76.0	
18 00 00	1 29 47	29.994	75.0	81.0	84.0	
20 00 00	1 27 28	29.982	77.0	81.0	86.0	
22 00 00	1 24 19	29.980	77.0	83.0	86.0	
JULY 19, 1841.						
0 00 00	1 22 45	29.950	78.0	74.0	79.0	Maximum at 20 hours - 1 30 39
2 00 00	1 23 36	29.964	77.0	70.0	76.0	Mimimum at 14 hours - 1 16 16
4 00 00	1 24 05	29.970	76.0	68.0	74.0	Mean - - - - 1 23 27.5
6 00 00	1 23 55	29.990	76.0	67.0	70.0	
8 00 00	1 22 28	29.994	76.0	65.0	67 0	
10 00 00	1 21 11	30.000	75.0	64.0	66.0	
Noon	1 17 56	30.010	75.0	69.0	72.0	
14 00 00	1 16 16	30.026	74.0	73.0	74.0	
16 00 00	1 19 24	30.042	75.0	78.0	82.0	
18 00 00	1 29 49	30.046	77.5	81.0	84.0	
20 00 00	1 30 39	30.024	80.5	85.0	85.0	
22 00 00	1 26 49	30.022	82.5	89.0	87.0	

JULY 20, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	Inches.	°	°	°
0 00 00	1 21 54	30.036	85.0	85.0	83.0
2 00 00	1 22 21	30.062	79 5	74.5	78.0
4 00 00	1 10 18	30.076	77.0	71.0	76.0
6 00 00	1 17 23	30.096	76.0	70.0	74.0
8 00 00	1 19 58	30.100	75.0	69.0	73.0
10 00 00	1 21 32	30.110	74.0	67.0	74.0
Noon	1 20 53	30.134	74.0	66.0	72.0
14 00 00	1 18 47	30.168	74.0	71.0	76.0
16 00 00	1 19 47	30.196	76.5	77.5	84.0
18 00 00	1 25 24	30.208	78.5	81.5	86.0
20 00 00	1 26 33	30.200	80.0	83.0	88.0
22 00 00	1 27 51	30.190	81.0	86.0	87.0

	° ′ ″
Maximum at 22 hours -	1 27 51
Minimum at 4 hours -	1 10 18
Mean - - - -	1 19 04.5

REMARKS.

An aurora indistinctly visible from 3*h.* 20*m.* to 4*h.*, extending from N. E. to N. W. by N. No streamers or arches. The northern horizon obscured by cirrus clouds. See extraordinary observations.

JULY 21, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 23 31	30.184	82.5	86.0	85.0
2 00 00	1 22 32	30.202	81.0	75.0	79.0
4 00 00	1 22 36	30.226	78.5	71.0	75.0
6 00 00	1 24 24	30.228	77.0	66.0	72.0
8 00 00	1 26 18	30.230	76.0	63.0	67.0
10 00 00	1 23 20	30.230	75.5	60.0	63.0
Noon	1 19 46	30.240	73.0	62.0	64.0
14 00 00	1 15 11	30.256	74.0	75.5	76.0
16 00 00	1 22 17	30.262	76.0	76.0	82.0
18 00 00	1 28 12	30.246	78.0	82.0	85.0
20 00 00		30.224	79.0	86.0	86.0
22 00 00	1 24 57	30.180	80.0	86.0	86.0

Maximum at — hours -
Minimum at — hours -
Mean - - - -

JULY 22, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 24 35	30.166	80.0	82.0	83.0
2 00 00	1 24 08	30.180	79.0	79.0	77.0
4 00 00	1 16 12	30.188	79.0	73 0	76.0
6 00 00	1 25 17	30.188	78.5	72.0	74.0
8 00 00	1 19 17	30.158	78.0	70.0	73.0
10 00 00	1 22 20	30.158	77.5	68.0	72.0
Noon	1 18 43	30.158	76.0	68.0	71.0
14 00 00	1 17 52	30.158	76.5	77.0	76.0
16 00 00	1 21 15	30.136	78.0	83.0	82.0
18 00 00	1 25 48	30.094	79.0	88.0	84.0
20 00 00	1 26 26	30.056	82.0	90.0	88.0
22 00 00	1 25 57	30.032	82.0	88.4	86.4

Maximum at 20 hours -	1 26 26
Minimum at 4 hours -	1 16 12
Mean - - - -	1 21 19

OBSERVATIONS AT WASHINGTON—1841.

JULY 23, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.		
h. m. s.	° ′ ″	*Inches.*	°	°	°		° ′ ″
0 00 00	1 23 18	30.008	83.0	85.0	86.0	Maximum at 8 hours -	1 27 19
2 00 00	1 18 13	30.032	82.0	81.0	84.0	Minimum at 12 hours -	1 16 18
4 00 00	1 23 51	30.032	81.0	75.0	78.0	Mean - - -	1 21 48.5
6 00 00	1 24 39	30.040	80.0	74.0	77.0		
8 00 00	1 27 19	30.010	79.0	74.0	76.0		
10 00 00	1 22 07	30.000	77.0	72.0	75.0		
Noon	1 16 18	30.000	78.0	79.0	76.0		
14 00 00	1 16 52	30.020	79.0	84.0	84.0		
16 00 00	1 19 54	30.050	79.0	85.0	90.0		
18 00 00	1 26 42	30.026	84.0	88.0	92.0		
20 00 00	1 27 18	30.000	86.0	93.0	94.0		
22 00 00	1 26 38	29.964	87.0	94.0	95.0		

JULY 24, 1841.

0 00 00	1 23 58	29.950	86.0	90.0	90.0	Maximum at 20 hours -	1 31 41
2 00 00	1 19 19	29.964	85.0	85.0	88.0	Minimum at 4 hours -	1 15 21
4 00 00	1 15 21	29.984	84.0	79.0	82.0	Mean - - -	1 23 31
6 00 00	1 22 55	29.974	83.0	76.0	80.0		
8 00 00	1 23 06	29.964	83.0	76.0	80.0		
10 00 00	1 22 11	29.966	82.0	75.0	80.0		
Noon	1 21 46	29.980	81.0	81.0	82.0		
14 00 00	1 21 04	29.988	82.0	85.0	86.0		
16 00 00	1 21 43	30 026	84.5	87.5	90.0		
18 00 00							
20 00 00	1 31 41	29.970	88.5	93.0	94.0		
22 00 00	1 25 27	29.962	90.5	94.5	94.0		

JULY 25, 1841.

0 00 00	1 26 46	29.950	89.0	87.0	89.0	Maximum at 18 hours -	1 29 25
2 00 00	1 24 23	29.966	87.5	84.5	87.0	Minimum at 14 hours -	1 15 16
4 00 00	1 18 32	29.962	87.0	82.0	86.0	Mean - - -	1 22 20.5
6 00 00	1 20 25	29.950	85.0	80.0	84.0		
8 00 00	1 23 01	29.946	83.0	78.0	80.0		
10 00 00	1 19 44	29.932	82.0	77.0	80.0		
Noon	1 17 22	29.936	83.0	81.0	80.0		
14 00 00	1 15 16	29.988	83.0	84.0	86.0		
16 00 00	1 21 53	29.940	85.5	92.0	90.0		
18 00 00	1 29 25	29.922	87.5	91.0	92.0		
20 00 00	1 28 41	29.854	88.5	88.0	82.0		
22 00 00	1 26 33	29.824	87.0	98.0	90.0		

MAGNETICAL AND METEOROLOGICAL

JULY 26, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 17	29.810	88.0	86.5	86.0	Maximum at 18 hours - 1 28 54
2 00 00	1 25 04	29.880	85.0	77.0	80.0	Minimum at 12 hours - 1 18 13
4 00 00	1 23 36	29.878	84.5	71.5	77.0	Mean - - - 1 23 33.5
6 00 00	1 23 07	29.874	84.0	72.0	75.0	
8 00 00	1 21 08	29 888	83.5	72.0	74.0	
10 00 00	1 19 18	29.860	83.5	71.0	74.0	
Noon	1 18 13	29.864	79.5	74.0	74.0	
14 00 00	1 18 20	29.870	81.5	74.0	80.0	
16 00 00	1 22 32	29.968	77.0	75.0	81.0	
18 00 00	1 28 54	29.996	78.0	76.0	81.0	
20 00 00	1 28 18	29.972	80.0	79.0	83.0	
22 00 00	1 26 36	29.962	80.0	80 0	85.0	

JULY 27, 1841.

0 00 00	1 23 57	29.970	82.0	79.0	82.0	Maximum at 20 hours - 1 29 25
2 00 00	1 24 35	30.016	79.0	70.0	74.0	Minimum at 14 hours - 1 17 54
4 00 00	1 21 38	30.034	77.0	64.0	68.0	Mean - - - 1 23 39.5
6 00 00	1 21 48	30.034	76.0	60.0	63.0	
8 00 00	1 25 45	30.020	75.5	59.5	62.0	
10 00 00	1 20 56	30.044	75.0	57 0	59.0	
Noon	1 19 16	30.076	74.0	66.0	62.0	
14 00 00	1 17 54	30.084	73.5	71.0	72 0	
16 00 00	1 23 17	30.068	74.0	74.0	80.0	
18 00 00	1 28 26	30.050	76.0	77.0	82.0	
20 00 00	1 29 25	30.000	79.0	83.0	84.0	
22 00 00	1 25 40	29.970	80.0	87.0	84.0	

JULY 28, 1841.

0 00 00	1 23 55	29.950	81.0	83.0	83.0	Maximum at 20 hours - 1 27 28
2 00 00	1 12 54	29.950	79.0	75.0	80.0	Minimum at 2 hours - 1 12 54
4 00 00	1 23 17	29.938	78.0	73.0	76.0	Mean - - - 1 20 11
6 00 00	1 22 08	29.880	77.0	72.0	74.0	
8 00 00	1 21 26	29.882	77.0	71.0	72.0	
10 00 00	1 19 33	29.880	76 0	70.0	72.0	
Noon	1 19 05	29.896	76.0	74.0	73.0	
14 00 00	1 17 47	29.906	76.0	75.0	74.0	
16 00 00	1 22 56	29.928	79.0	80.0	83.0	
18 00 00	1 27 02	29.920	80.5	83.5	86.0	
20 00 00	1 27 28	29.888	80.5	84.0	86.0	
22 00 00	1 27 16	29.874	81.0	84.0	86.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JULY 29, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 58	29.868	81.5	83.0	85.0	Maximum at 20 hours - 1 30 56
2 00 00	1 24 10	29.874	81.0	75.0	79.0	Minimum at 6 hours - 1 19 10
4 00 00	1 23 19	29.950	79.0	73.0	75.0	Mean - - - 1 25 08.5
6 00 00	1 19 10	29.950	75.0	69.0	70.0	
8 00 00	1 19 23	29.954	71.0	66.0	70.0	
10 00 00	1 19 43	29.994	71.0	61.0	65.0	
Noon	1 19 51	30.030	72.0	63.0	64.0	
14 00 00	1 19 38	30.042	72.0	67.0	70.0	
16 00 00	1 23 37	30.028	72.5	70.0	76.0	
18 00 00	1 29 24	30.000	74.5	75.0	81.0	
20 00 00	1 30 55	29.950	77.5	80.0	82.0	
22 00 00	1 28 05	29.930	78.0	84.0	83.0	
JULY 30, 1841.						
0 00 00	1 24 20	29.912	79.0	83.0	81.0	Maximum at 20 hours - 1 27 38
2 00 00	1 23 12	29.916	78.0	72.0	76.0	Minimum at 14 hours - 1 19 26
4 00 00	1 23 18	29.908	76.0	68.0	71.0	Mean - - - 1 23 32
6 00 00	1 23 54	29.878	71.0	68.0	71.0	
8 00 00	1 23 29	29.846	76.5	68.5	71.0	
10 00 00	1 22 14	29.848	76.0	69.5	71.0	
Noon	1 19 43	29.840	76.0	70.0	72.0	
14 00 00	1 19 26	29.844	76.0	75.0	75.0	
16 00 00	1 24 00	29.810	77.0	77.0	77.0	
18 00 00	1 26 02	29.790	76.0	75.0	75.0	
20 00 00	1 27 38	29.778	75.0	74.0	75.0	
22 00 00	1 27 05	29.756	74.0	72.0	74.0	
JULY 31, 1841.						
0 00 00	1 23 34	29.718	74.0	71.0	73.0	Maximum at 18 hours - 1 30 02
2 00 00	1 23 54	29.718	74.0	69.0	72.0	Minimum at 14 hours - 1 16 44
4 00 00	1 23 18	29.730	75.0	68.0	70.0	Mean - - - 1 23 23
6 00 00	1 23 09	29.680	74.5	67.5	70.0	
8 00 00	1 22 31	29.632	74.5	66.0	69.0	
10 00 00	1 20 29	29.650	74.5	66.5	69.0	
Noon	1 18 28	29.658	74.5	67.0	69.0	
14 00 00	1 16 44	29.664	74.0	71.0	73.0	
16 00 00	1 22 24	29.662	73.0	73.0	75.0	
18 00 00	1 30 02	29.644	76.0	85.0	84.0	
20 00 00	1 29 57	29.650	77.0	81.0	84.0	
22 00 00	1 25 58	29.650	78.0	80.0	82.0	

AUGUST 1, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 20	29.700	76.0	69.0	76.0	Maximum at 20 hours - 1 30 16
2 00 00	1 24 08	29.722	74.0	69.0	72.0	Minimum at 14 hours - 1 17 26
4 00 00	1 24 03	29.750	72.0	64.0	67.0	Mean - - - 1 23 51
6 00 00	1 23 39	29.768	70.0	62.0	65.0	
8 00 00	1 22 31	29.776	69.0	60.0	63.0	
10 00 00	1 21 37	29.792	67.0	58.0	60.0	
Noon	1 18 07	29.830	67.0	62.0	62.0	
14 00 00	1 17 26	29.846	68.0	66.0	69.0	
16 00 00	1 24 12	29.874	69.0	68.0	72.0	
18 00 00	1 30 15	29.908	70.5	71.0	74.0	
20 00 00	1 30 16	29.918	71.5	72.5	76.0	
22 00 00	1 26 09	29.928	72.0	73.5	75.0	

AUGUST 2, 1841.

0 00 00	1 24 09	29.948	74.0	71.0	74.0	Maximum at 18 hours - 1 31 09
2 00 00	1 23 48	29.984	72.0	65.5	69.0	Minimum at 14 hours - 1 16 49
4 00 00	1 24 14	30.052	70.0	63.0	68.0	Mean - - - 1 23 59
6 00 00	1 17 34	30.064	70.0	62.0	66.0	
8 00 00	1 21 36	30.064	69.0	59.0	62.0	
10 00 00	1 20 44	30.064	69.0	58.0	60.0	
Noon	1 18 22	30.086	69.0	58.0	60.0	
14 00 00	1 16 49	30.126	69.0	70.0	70.0	
16 00 00	1 22 24	30.156	74.0	75.0	80.0	
18 00 00	1 31 09	30.156	75.5	78.5	83.0	
20 00 00	1 29 32	30.140	76.0	81.0	83.0	
22 00 00	1 24 39	30.136	76.5	82.5	82.0	

AUGUST 3, 1841.

0 00 00	1 23 09	30.136	76.5	81.5	80.0	Maximum at 20 hours - 1 27 33
2 00 00	1 15 03	30.152	76.0	70.5	75.0	Minimum at 4 hours - 1 11 11
4 00 00	1 11 11	30.158	73.5	64.5	74.0	Mean - - - - 1 19 22
6 00 00	1 18 08	30.150	72.0	62.0	67.0	
8 00 00	1 19 24	30.157	72.0	59.5	65.0	
10 00 00	1 20 52	30.160	72.0	59.0	62.0	
Noon	1 16 30	30.170	72.0	62.5	64.0	
14 00 00	1 16 48	30.176	73.0	74.0	71.0	
16 00 00	1 20 00	30.196	75.0	80.0	75.0	
18 00 00	1 26 49	30.174	76.0	84.0	79.0	
20 00 00	1 27 33	30.148	78.0	87.0	85.0	
22 00 00	1 25 23	30.148	78.0	86.0	84.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
AUGUST 4, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 07	30.126	79.0	80.0	83.0	Maximum at 20 hours - 1 27 40
2 00 00	1 19 48	30.110	77.0	74.0	77.0	Minimum at 14 hours - 1 15 21
4 00 00	1 22 59	30.138	76.0	67.0	72.0	Mean - - - - 1 21 30.5
6 00 00	1 23 59	30.126	75.0	65.0	68.0	
8 00 00	1 21 33	30.100	75.0	64.0	67.0	
10 00 00	1 23 14	30.090	74.5	64.0	66.0	
Noon	1 18 28	30.108	74.5	66.5	66.0	
14 00 00	1 15 21	30.110	75.0	78.0	79.0	
16 00 00	1 21 50	30.108	78.0	81.5	86.0	
18 00 00	1 25 19	30.068	80.0	84.5	88.0	
20 00 00	1 27 40	30.030	82.0	89.0	88.0	
22 00 00	1 24 08	30.000	82.5	84.5	86.0	
AUGUST 5, 1841.						
0 00 00	1 28 20	29.964	82.0	78.5	82.0	Maximum at 20 hours - 1 28 29
2 00 00	1 23 21	29.972	79.0	72.0	80.0	Minimum at 14 hours - 1 15 34
4 00 00	1 21 48	29.970	78.0	71.0	77.0	Mean - - - - 1 22 01.5
6 00 00	1 21 38	29.938	77.0	71.0	76.0	
8 00 00	1 21 29	29.915	76.0	70.0	74.0	
10 00 00	1 21 21	29.900	76.0	70.0	74.0	
Noon	1 20 59	29.910	76.0	71.0	75.0	
14 00 00	1 15 34	29.924	75.0	72.0	76.0	
16 00 00	1 19 44	29.950	76.0	76.0	76.0	
18 00 00	1 26 11	29.862	76.0	76.0	76.0	
20 00 00	1 28 29	29.866	76.0	76.0	76.0	
22 00 00	1 26 37	29.829	76.0	75.0	76.0	
AUGUST 6, 1841.						
0 00 00	1 26 57	29.850	76.0	74.0	76.0	Maximum at 18 hours - 1 33 10
2 00 00	1 22 37	29.864	76.0	71.0	76.0	Minimum at 12 hours - 1 15 12
4 00 00	1 18 45	29.850	75.0	69.0	74.0	Mean - - - 1 24 11
6 00 00	1 19 53	29.842	74.0	69.0	72.0	
8 00 00	1 19 44	29.850	73.0	67.0	70.0	
10 00 00	1 19 10	29.860	72.0	65.0	69.0	
Noon	1 15 12	29.850	72.0	68.0	69.0	
14 00 00	1 28 09	29.876	73.0	72.0	76.0	
16 00 00	1 20 06	29.884	75.5	75.5	81.0	
18 00 00	1 33 10	29.884	77.0	79.0	83.0	
20 00 00	1 29 42	29.884	77.0	80.5	83.0	
22 00 00	1 19 00	29.878	80.0	82.0	85.0	

AUGUST 7, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	Inches.	°	°	°
0 00 00	1 25 28	29.878	80.5	80.0	82.0
2 00 00	1 06 04	29.878	78.0	68.0	72.0
4 00 00	1 22 00	29.910	75.0	66.5	70.0
6 00 00	1 21 21	29.910	75.0	66.0	68.0
8 00 00	1 20 52	29.902	75.0	66.0	68.0
10 00 00	1 20 41	29.900	74.0	64.0	67.0
Noon	1 13 53	29.910	74.0	68.0	69.0
14 00 00	1 14 27	29.950	74.0	73.0	78.0
16 00 00	1 20 37	29.960	76.0	78.0	86.0
18 00 00	1 26 37	29.960	78.0	80.0	89.0
20 00 00	1 26 55	29.936	80.0	85.0	91.0
22 00 00	1 25 14	29.932	81.0	85.0	90.0

	° ′ ″
Maximum at 20 hours - -	1 26 55
Minimum at 2 hours - - -	1 06 04
Mean - - - - - -	1 16 29.5

REMARKS.—At 1*h*. 50*m*., a diffused light indicating an aurora in the northern horizon, the extremities bearing E. N. E. and N. N. W. At 2*h*. 28*m*., an arch formed with an altitude of 8°, the middle bearing N. by E., the extremes N. E. and N. N. W. At 2*h*. 48*m*., streamers shot up from the centre of the arch, after which it gradually became fainter, and at 3*h*. 30*m*. disappeared. Before the formation of the arch, the eastern extremity increased in brightness, assuming the form of an inverted cone inclined to the horizon at an angle of 45°. Thermometer in observatory exposed to sun from 14*h*. See extraord'y observations.

AUGUST 8, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 23 56	29.940	82.0	81.0	83.0
2 00 00	1 23 18	29.940	78.0	75.0	76.0
4 00 00	1 23 21	29.960	77.0	68.5	71.0
6 00 00	1 23 15	29.960	76.5	66.0	69 0
8 00 00	1 23 07	29.960	75.0	65.0	66.0
10 00 00	1 22 09	29.960	75.0	63.5	65.0
Noon	1 19 20	29 974	74.5	67.0	66 0
14 00 00	1 18 28	29.980	75.0	75.5	67.0
16 00 00	1 23 14	30.000	77.0	83.0	83.0
18 00 00	1 28 24	29.974	78.0	84.0	84.0
20 00 00	1 27 52	29.950	79.0	84.0	86.0
22 00 00	1 24 20	29.950	80.0	81.0	84.0

Maximum at 18 hours -	1 28 24
Minimum at 14 hours -	1 18 28
Mean - - -	1 23 26

AUGUST 9, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 22 48	29.960	78.0	77.0	80.0
2 00 00	1 19 23	29.932	79.0	75.0	79.0
4 00 00	1 23 12	29.932	78.0	75.0	77.0
6 00 00	1 22 57	29.900	77.0	75.0	77.0
8 00 00	1 22 57	29.828	76.0	73.0	75.0
10 00 00	1 22 21	29.856	76.0	72.0	74.0
Noon	1 18 08	29 880	76.0	72.0	74.0
14 00 00	1 18 29	29.880	76.0	75.0	75.0
16 00 00	1 25 43	29.902	78.0	81.0	80.0
18 00 00	1 26 49	29.912	80.0	84.0	85.0
20 00 00	1 26 36	29.908	82.0	86.0	87.0
22 00 00	1 24 10	29.902	83.0	84.5	87.0

Maximum at 18 hours -	1 26 49
Minimum at 12 hours -	1 18 08
Mean - - -	1 22 28.5

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
AUGUST 16, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 14	29.902	81.5	81.0	84.0	Maximum at 20 hours - 1 25 51
2 00 00	1 24 42	29.920	80.5	76.0	81.0	Minimum at 14 hours - 1 16 58
4 00 00	1 24 00	29.950	80.0	75.0	80.0	Mean - - - 1 21 24.5
6 00 00	1 22 32	29.964	78.0	74.0	79.0	
8 00 00	1 21 17	29.976	76.0	73.0	78.0	
10 00 00	1 19 46	30.004	76.0	72.0	76.0	
Noon	1 17 19	30.032	77.0	73.0	76.0	
14 00 00	1 16 58	30.040	77.0	74.0	76.0	
16 00 00	1 21 44	30.024	78.0	81.0	80.0	
18 00 00	1 25 50	30.000	79.0	84.5	80.0	
20 00 00	1 25 51	29.962	80.0	86.5	82.0	
22 00 00	1 24 10	29.950	80.5	85.0	84.0	
AUGUST 17, 1841.						
0 00 00	1 23 59	29.926	78.0	73.0	78.0	Maximum at 18 hours - 1 29 26
2 00 00	1 23 59	29.930	78.0	72.5	77.0	Minimum at hours
4 00 00	1 23 31	29.928	77.5	72.0	77.0	Mean - -
6 00 00	1 22 40	29.912	77.0	72.0	77.0	
8 00 00	1 22 13	29.896	77.0	72.0	76.0	
10 00 00	1 21 05	29.920	77.0	71.5	76.0	
Noon	1 19 32	29.938	77.0	73.0	75.0	
14 00 00						
16 00 00	1 24 54	29.966	77.0	81.0	78.0	
18 00 00	1 29 26	29.966	79.0	86.0	82.0	
20 00 00	1 28 41	29.950	80.0	88.0	84.0	
22 00 00	1 27 11	29.960	76.0	79.0	78.0	
AUGUST 18, 1841.						
0 00 00	1 26 39	29.962	76.0	71.0	76.0	Maximum at 0 hours - 1 26 39
2 00 00	1 22 50	29.974	75.0	70.0	75.0	Minimum at 14 hours - 1 15 43
4 00 00	1 19 56	30.004	76.0	69.0	74.0	Mean - - - 1 21 11
6 00 00	1 20 26	30.012	76.0	68.0	73.0	
8 00 00	1 16 48	30.012	74.0	66.5	70.0	
10 00 00	1 20 06	30 020	73.0	65.5	68.0	
Noon	1 15 44	30.050	73.0	65.0	67.0	
14 00 00	1 15 43	30.092	71.0	70.5	72.0	
16 00 00	1 22 32	30.096	72.0	72.0	72.0	
18 00 00	1 25 50	30.072	76.0	77.0	76.0	
20 00 00	1 24 39	30.030	74.0	78.0	79.0	
22 00 00	1 24 14	30.018	74.0	79.0	80.0	

AUGUST 13, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	Inches.	°	°	°
0 00 00	1 23 42	30.000	74.0	69.0	74.0
2 00 00	1 24 30	29.970	73.0	69.0	69.0
4 00 00	1 23 50	29.970	74.0	68.0	71.0
6 00 00	1 22 55	29.944	72.0	66.0	70.0
8 00 00	1 22 18	29.908	71.0	64.0	68.0
10 00 00	1 21 24	29.904	71.0	63.0	67.0
Noon.	1 18 52	29.900	70.0	67.0	68.0
14 00 00	1 18 21	29.934	71.0	71.0	71.0
16 00 00	1 29 14	29.940	72.0	76.0	76.0
18 00 00	1 28 10	29.920	73.0	79.5	78.0
20 00 00	1 22 51	29.893	75.0	79.0	82.0
22 00 00	1 23 51	29.884	77.0	82.0	81.0

		° ′ ″
Maximum at 16 hours	-	1 29 14
Minimum at 14 hours	-	1 18 21
Mean	- - -	1 23 47.5

REMARKS.

At 15*h*., placed the needle of the vertical force magnetometer on its supports. Deflection allowed on the observations afterwards — 2′ 41″.

AUGUST 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 23 58	29.886	76.0	75.0	78.0
2 00 00	1 24 13	29.914	75.5	72.0	74.0
4 00 00	1 24 25	29.932	75.0	68.0	72.0
6 00 00	1 23 11	29.920	73.0	66.0	70.0
8 00 00	1 21 39	29.912	72.0	65.0	68.0
10 00 00	1 18 15	29.940	72.0	64.0	67.0
Noon	1 17 34	29.958	72.0	66.0	66.0
14 00 00	1 15 05	29.962	72.0	67.0	68.0
16 00 00	1 22 03	29.996	73.0	75.0	74.0
18 00 00	1 27 51	29.996	75.0	78.5	79.0
20 00 00	1 27 37	29.970	76.0	82.0	84.0
22 00 00	1 25 39	29.964	77.0	81.0	84.0

Maximum at 18 hours	-	1 27 51
Minimum at 14 hours	-	1 15 05
Mean	- - -	1 21 28

REMARKS.

At 3*h*. 45*m*., removed the vertical force needle from the observatory.

AUGUST 15, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 22 06	30.000	78.0	77.0	80.0
2 00 00	1 21 30	30.026	76.0	70.5	75.0
4 00 00	1 15 16	30.046	74.5	67.0	71.0
6 00 00	1 19 31	30.044	74.0	65.0	70.0
8 00 00	1 17 23	30.060	74.0	65.0	67.0
10 00 00	1 25 51	30.064	73.0	64.5	67.0
Noon	1 15 41	30.078	73.0	66.0	67.0
14 00 00	1 16 48	30.122	73.0	69.0	70.0
16 00 00	1 23 27	30.180	74.0	74.0	76.0
18 00 00	1 29 05	30.192	75.0	76.0	78.0
20 00 00	1 27 47	30.196	76.0	78.0	80.0
22 00 00	1 24 16	30.166	77.0	77.0	80.0

Maximum at 18 hours	-	1 29 05
Minimum at 4 hours	-	1 15 16
Mean	- - -	1 22 10.5

REMARKS.

From 2*h*. 30*m*. to 4*h*. 30*m*., a diffused auroral light extending from N. E. to N. W. by N.; no streamers or arches.

AUGUST 16, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 03	30.180	78.0	77.0	78.0	Maximum at 20 hours - 1 30 10
2 00 00	1 23 56	30.180	76.0	73.0	74.0	Minimum at 14 hours - 1 16 56
4 00 00	1 19 50	30.206	74.0	65.0	69.0	Mean - - - 1 23 33
6 00 00	1 22 45	30.206	72.5	62.5	66.0	
8 00 00	1 21 25	30.186	72.5	61.5	64.0	
10 00 00	1 23 04	30 186	73.0	60.0	62.0	
Noon	1 18 50	30.210	72.5	62.0	62.0	
14 00 00	1 16 56	30.238	72.0	67.0	70.0	
16 00 00	1 23 30	30.242	74.0	71.0	76.0	
18 00 00	1 28 49	30.206	74.0	76.0	78.0	
20 00 00	1 30 10	30.172	76.0	77.0	78.0	
22 00 00	1 27 15	30.150	77.0	77.0	79.0	

AUGUST 17, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 01	30.232	72.0	76.0	77.0	Maximum at 20 hours - 1 30 54
2 00 00	1 21 09	30.258	74.0	68.0	72 0	Minimum at 4 hours - 1 07 55
4 00 00	1 07 55	30.219	73.0	63.0	67.0	Mean - - - 1 19 24.5
6 00 00	1 17 58	30.219	70.0	60 0	63.0	
8 00 00	1 22 15	30.219	69 0	58.0	61.0	
10 00 00	1 20 21	30.232	69.0	56.0	60.0	REMARKS.
Noon	1 17 06	30.232	67.0	58.0	58.0	
14 00 00	1 14 44	30.222	69 0	66.0	68 0	A new barometer.
16 00 00	1 22 15	30.245	71.0	73.0	77.0	
18 00 00	1 28 30	30.172	73.0	73.0	77.0	
20 00 00	1 30 54	30.151	75.0	78.0	82.0	
22 00 00	1 25 29	30.151	75.0	79.0	82.0	

AUGUST 18, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 51	30.130	77.0	76.0	79.0	Maximum at 20 hours - 1 28 08
2 00 00	1 23 34	30.130	74.0	76.5	72.0	Minimum at 14 hours - 1 15 01
4 00 00	1 19 43	30.123	72.0	61.0	66.0	Mean - - - 1 21 34.5
6 00 00	1 21 59	30.118	72 0	59.0	64.0	
8 00 00	1 21 36	30.101	71.0	55.0	60.0	
10 00 00	1 20 29	30.092	70.0	54.0	59 0	REMARKS.
Noon	1 17 35	30.120	70.0	57.0	62.0	
14 00 00	1 15 01	30.133	68.0	64.0	66.0	At 15*h*., placed the vertical force needle on its supports.
16 00 00	1 23 16	30.151	74.0	72.0	78 0	
18 00 00	1 27 55	30.032	74.0	76.0	79.0	
20 00 00	1 28 08	30.021	76.0	79.0	80.0	
22 00 00	1 24 39	30.072	80.0	80.0	80.0	

AUGUST 19, 1841.						
Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 36	30.050	75.0	75.0	78.0	Maximum at 20 hours - 1 28 38
2 00 00	1 22 57	30.045	72.0	67.0	74.0	Minimum at 14 hours - 1 13 57
4 00 00	1 22 01	30.058	69.5	62.5	69.0	Mean - - - 1 21 17.5
6 00 00	1 22 34	30 008	68.5	60.0	66.0	
8 00 00	1 22 52	29.993	70.0	57 0	62.0	
10 00 00	1 22 26	29.992	69 5	56.5	61.0	
Noon	1 17 48	29.987	69.0	58.5	61.0	
14 00 00	1 13 57	30.036	68.0	67.5	64.0	
16 00 00	1 19 51	30.036	73.0	73.0	72.0	
18 00 00	1 26 43	30.036	76.0	77.0	78.0	
20 00 00	1 28 38	30.036	77.0	82.0	82.0	
22 00 00	1 25 47	30.036	80.0	77.0	83.0	
AUGUST 20, 1841.						
0 00 00	1 22 17	30.036	78.0	80.0	82 0	Maximum at 18 hours - 1 29 31
2 00 00	1 23 13	30.036	76.0	72.0	80.0	Minimum at 14 hours - 1 16 40
4 00 00	1 18 28	30.066	74.0	69.0	76.0	Mean - - - 1 23 05.5
6 00 00	1 22 54	30.066	73.0	67.0	74.0	
8 00 00	1 23 13	30.066	72.5	65.0	72 0	
10 00 00	1 23 08	30.066	72.0	65.0	70.0	
Noon	1 19 08	30.071	72.0	65.0	70.0	
14 00 00	1 16 40	30.062	71.5	75.0	72.0	
16 00 00	1 22 31	30.125	79.5	81.0	81.0	
18 00 00	1 29 31	30.121	82.0	86.0	84 0	
20 00 00	1 29 12	30.097	84.0	88.5	88.0	
22 00 00	1 24 50	30.073	81.0	86.5	86.0	
AUGUST 21, 1841.						
0 00 00	1 22 50	30.058	86.0	82.0	85.0	Maximum at 20 hours - 1 31 38
2 00 00	1 20 48	30.108	78.5	77.0	83.0	Minimum at 14 hours - 1 16 38
4 00 00	1 20 56	30.108	77.0	76.0	81.0	Mean - - - 1 24 08
6 00 00	1 22 23	30.108	76.0	73.0	79.0	
8 00 00	1 22 23	30.108	74.0	71.0	78.0	
10 00 00	1 20 24	30.108	73.0	71.0	76.0	
Noon	1 19 18	30.108	74.0	70.0	75.0	
14 00 00	1 16 38	30.108	76.0	79.0	77.0	
16 00 00	1 22 27	30.098	79 0	82.5	81.0	
18 00 00	1 28 09	30.076	81.0	85.0	84.0	
20 00 00	1 31 38	30.023	83.0	86.5	86.0	
22 00 00	1 30 15	30.014	85.0	91.0	88.0	

AUGUST 22, 1841.*

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 25	29.996	82.0	83.0	86.0	Maximum at 20 hours - 1 28 01
2 00 00	1 23 49	29.996	80.0	78.0	86.0	Minimum at 6 hours - 1 14 26
4 00 00	1 22 21	30.045	79.0	71.0	80.0	Mean - - - 1 21 13.5
6 00 00	1 14 26	30.023	78.0	71.5	79.0	
8 00 00	1 21 44	29.988	78.0	70.0	77.0	
10 00 00	1 20 40	29.966	77.5	71.0	76.0	
Noon	1 17 21	29.979	76.0	74.5	75.5	
14 00 00	1 17 13	29.988	75.5	78.0	76.0	
16 00 00	1 20 56	29.983	79.0	82.0	80.0	
18 00 00	1 26 50	29.992	80.0	82.0	82.0	
20 00 00	1 28 01	29.974	80.5	81.0	84.0	
22 00 00	1 26 53	29.987	80.0	78.0	83.0	
AUGUST 23, 1841.						
0 00 00	1 22 28	30.018	77.0	76.5	82.0	Maximum at 20 hours - 1 28 37
2 00 00	1 20 59	30.036	76.0	71.5	79.5	Minimum at 14 hours - 1 14 50
4 00 00	1 21 50	30.049	73.0	68.0	76.0	Mean - - - 1 21 43.5
6 00 00	1 21 41	30.074	74.0	67.0	74.0	
8 00 00	1 21 37	30.085	75.0	66.0	70.0	
10 00 00	1 16 03	30.107	73.0	66.0	70.0	
Noon	1 15 24	30.156	73.0	66.0	70.0	
14 00 00	1 14 50	30.187	72.0	69.0	72.0	
16 00 00	1 18 57	30.249	74.0	72.0	74.0	
18 00 00	1 26 23	30.189	75.0	76.0	76.0	
20 00 00	1 28 37	30.129	76.0	76.0	78.0	
22 00 00	1 27 57	30.258	76.0	77.0	78.0	
AUGUST 24, 1841.						
0 00 00	1 24 59	30.214	74.0	72.0	78.0	Maximum at 18 hours - 1 28 51
2 00 00	1 12 45	30.245	72.0	67.0	75.0	Minimum at 2 hours - 1 12 45
4 00 00	1 21 20	30.320	71.0	65.0	73.0	Mean - - - 1 20 48
6 00 00	1 17 09	30.275	71.0	63.5	70.0	
8 00 00	1 27 20	30.275	71.5	62.0	69.0	
10 00 00	1 19 20	30.275	71.5	61.0	68.0	
Noon	1 19 55	30.359	71.0	61.0	67.0	
14 00 00	1 17 40	30.347	70.5	68.0	68.0	
16 00 00	1 24 52	30.370	75.0	75.0	74.0	
18 00 00	1 28 51	30.364	75.0	77.0	76.0	
20 00 00	1 27 43	30.347	75.5	76.0	77.0	
22 00 00	1 23 58	30.347	74.5	76.5	78.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
AUGUST 25, 1841.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 23 48	30.338	73.5	72.5	77.0	Maximum at 18 hours - 1 30 13
2 00 00	1 24 14	30.347	71.0	65.0	74.0	Minimum at 14 hours - 1 17 14
4 00 00	1 23 25	30.347	70.0	63.0	72.0	Mean - - - 1 23 43.5
6 00 00	1 22 24	30.338	69.0	61.0	69.0	
8 00 00	1 21 54	30.352	65.0	59.0	66.0	
10 00 00	1 20 25	30.303	65.0	60.0	65.0	
Noon	1 17 45	30.303	69.0	60.0	64.0	
14 00 00	1 17 14	30.335	66.5		66.0	
16 00 00	1 24 19	30.364	71.0	74.5	70.0	
18 00 00	1 30 13	30.338	72.0	77.0	74.0	
20 00 00	1 29 01	30.302	73.0	77.0	75.0	
22 00 00	1 26 49	30.280	72.0	75.0	76.0	
AUGUST 26, 1841.						
0 00 00	1 24 27	30.258	72.0	73.0	75 0	Maximum at 18 hours - 1 29 43
2 00 00	1 27 26	30.231	69.0	64.0	72.0	Minimum at 14 hours - 1 17 26
4 00 00	1 23 21	30.210	68.5	61.5	69.0	Mean - - - 1 23 34.5
6 00 00	1 23 00	30.187	69.5	62.5	68.0	
8 00 00	1 21 14	30.165	70.0	62.5	68.0	
10 00 00	1 19 59	30.152	70.0	62.0	67.0	
Noon	1 20 40	30.147	69.5	62.5	67.0	
14 00 00	1 17 26	30.134	68.5	66.5	68.0	
16 00 00	1 22 28	30.134	68.0	66.5	68.0	
18 00 00	1 29 43	30.116	68.0	66.0	69.0	
20 00 00	1 29 34	30.054	68.0	66.0	68.0	
22 00 00	1 28 54	30.003	69.0	65.0	68.0	
AUGUST 27, 1841.						
0 00 00	1 28 54	29.977	69.0	65.5	68.0	Maximum at 0 hours - 1 28 54
2 00 00	1 17 31	29.977	68.0	66.0	68.0	Minimum at 4 hours - 1 04 00
4 00 00	1 04 00	29.974	69.0	66.0	70.0	Mean - - - 1 16 27
6 00 00	1 16 48	29.970	69 0	66.0	69.0	
8 00 00	1 14 02	29.955	69.0	66.0	69.0	
10 00 00	1 21 10	29.958	70.0	66.0	69 0	
Noon	1 15 37	29.978	70.0	66 5	69.0	REMARKS.
14 00 00	1 22 21	29.992	70.0	71.0	70.0	
16 00 00	1 21 55	30.014	71.0	73.0	70.0	See extraordinary observations.
18 00 00	1 26 59	30.014	73 0	80.0	74.0	
20 00 00	1 25 36	29.914	74.0	80.0	75.0	
22 00 00	1 23 58	29.914	74.0	78.0	75.0	

AUGUST 28, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 24	29.914	73.0	75.0	77.0	Maximum at 20 hours - 1 27 08
2 00 00	1 21 01	29.985	72.0	73.0	76.0	Minimum at 14 hours - 1 14 48
4 00 00	1 22 45	29.985	72.0	71.0	76.0	Mean - - - 1 20 58
6 00 00	1 24 28	30.014	72.0	70.0	75.0	
8 00 00	1 21 30	30.014	71.0	69.0	74.0	
10 00 00	1 20 21	30.003	72.0	68.5	74.0	
Noon	1 21 51	30.058	71.0	69.0	73.0	
14 00 00	1 14 48	30.073	71.0	70 0	74.0	
16 00 00	1 19 48	30.103	72.0	72.0	74.0	
18 00 00	1 26 59	30.103	74.5	77.0	78.0	
20 00 00	1 27 08	30.085	76.0	79.5	81.0	
22 00 00	1 24 43	30.081	77.5	80.5	82.0	

AUGUST 29, 1841.

0 00 00	1 21 39	30.103	76.0	76 0	80.0	Maximum at 18 hours - 1 31 54
2 00 00	1 17 02	30.116	75.0	73.0	78.0	Minimum at 12 hours - 1 13 35
4 00 00	-	30.116	74.0	72.0	76.0	Mean - - - 1 22 44.5
6 00 00	1 16 16	30.137	73.0	68.0	74.0	
8 00 00	1 16 59	30.162	72 0	67.0	72.0	
10 00 00	1 26 58	30.185	70.0	66.0	71.0	
Noon	1 13 35	30.159	70.0	66.0	70.0	
14 00 00	1 18 14	30.162	72.0	72.0	71.0	
16 00 00	1 25 58	30.191	78 0	80.2	78.0	
18 00 00	1 31 54	30.180	80.0	83.0	82.0	
20 00 00	1 29 25	30.169	82.0	87.0	84.0	
22 00 00	1 22 51	30.144	82.0	85.0	85.0	

AUGUST 30, 1841.

0 00 00	1 20 08	30.132	81.0	81.0	84.0	Maximum at 18 hours - 1 28 59
2 00 00	1 20 34	30.132	78.0	76.0	81.0	Minimum at 12 hours - 1 18 11
4 00 00	1 22 45	30.143	77 0	74.0	79.0	Mean - - - 1 23 35
6 00 00	1 21 48	30.134	77.0	73.0	78.0	
8 00 00	1 21 22	30.112	77.0	73.0	77.0	
10 00 00	1 23 40	30 094	76.0	72.0	76.0	
Noon	1 18 11	30.112	75.0	73.0	76.0	
14 00 00	1 18 19	30.139	77.0	78.5	78.0	
16 00 00	1 23 14	30.139	80.0	80.0	80.0	
18 00 00	1 28 59	30.125	82.0	83.0	82.0	
20 00 00	1 28 12	30.055	83.0	83.0	84.0	
22 00 00	1 24 29	30.055	81.5	83.5	86.0	

AUGUST 31, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 14	30.036	80.0	79.5	84.0	Maximum at 18 hours - 1 28 18
2 00 00	1 23 58	30.036	75.0	71.0	79.0	Minimum at 12 hours - 1 15 14
4 00 00	1 23 37	30.036	75.0	71.0	76.0	Mean - - - 1 21 46
6 00 00	1 26 20	30.017	74.0	70.0	75.0	
8 00 00	1 22 59	30.007	74.0	69.0	73.0	
10 00 00	1 18 59	30.007	72.0	68.0	72.0	
Noon	1 15 14	30.002	72.0	66.0	70.0	
14 00 00	1 16 01	30.007	73.0	72.5	74.0	
16 00 00	1 23 50	30.014	77.0	77.0	78.0	
18 00 00	1 28 18	30.014	78.0	80.0	81.0	
20 00 00	1 27 22	29.978	79.0	81.0	83.0	
22 00 00	1 23 46	29.978	80.0	81.0	82.0	

SEPTEMBER 1, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 16 49	29.956	78.0	77.0	80.0	Maximum at 8 hours - 1 30 17
2 00 00	1 17 22	29.956	76.0	72.0	78.0	Minimum at 14 hours - 1 14 00
4 00 00	1 21 38	29.956	75.0	70.0	75.0	Mean - - - 1 22 08.5
6 00 00	1 20 33	29.956	73.5	67.0	73.0	
8 00 00	1 30 17	29.892	73.0	64.5	70.0	
10 00 00	1 17 50	29.892	72.0	64.0	68.0	
Noon	1 15 03	29.962	72.0	64.0	67.0	
14 00 00	1 14 00	29.974	70.5	70.0	70.0	
16 00 00	1 26 04	30.023	76.0	75.5	77.0	
18 00 00	1 28 28	30.002	77.0	79.5	80.0	
20 00 00	1 28 36	29.988	78.5	82.0	81.0	
22 00 00	1 23 48	29.988	79.0	83.5	82.0	

SEPTEMBER 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 06	29.983	77.0	76.0	80.0	Maximum at 18 hours - 1 30 30
2 00 00	1 23 07	29.983	74.0	70.0	76.5	Minimum at 12 hours - 1 17 51
4 00 00	1 22 03	29.983	73.0	68.0	75.0	Mean - - - 1 24 10.5
6 00 00	1 23 04	29.985	72.0	66.0	72.0	
8 00 00	1 20 32	29.985	71.0	66.0	69.0	
10 00 00	1 19 05	30.007	71.0	65.0	69.0	
Noon	1 17 51	30.007	71.0	66.0	69.0	
14 00 00	1 19 09	30.047	73.0	74.0	71.0	
16 00 00	1 26 07	80.039	76.0	78.0	77.0	
18 00 00	1 30 30	30.043	79.5	83.0	81.0	
20 00 00	1 27 06	30.014	82.0	86.0	84.0	
22 00 00	1 24 48	30.002	84.0	87.0	86.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
SEPTEMBER 3, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 59	29 992	83.0	82.0	85.0	Maximum at 18 hours - 1 29 52
2 00 00	1 19 05	30.023	80.5	85.0	82.0	Minimum at 2 hours - 1 19 05
4 00 00	1 22 58	30 032	79.5	72.0	78.0	Mean - - - - 1 24 28.5
6 00 00	1 23 12	30.032	78.0	71.0	77.0	
8 00 00	1 27 50	30.010	77.0	68.6	74.0	
10 00 00	1 22 15	30.014	77.0	67.0	73.0	REMARKS.
Noon	1 20 17	30.023	77.0	70.0	72.0	
14 00 00	1 20 45	30.028	77.0	75.2	76.0	Temperature of the air at 2*h*. probably noted 10° too high.
16 00 00	1 24 28	29.999	79.5	80.0	80.0	
18 00 00	1 29 52	29.992	82.0	86.0	84.0	
20 00 00	1 29 39	29.947	83 0	87.0	86.0	
22 00 00	1 26 07	29.868	84.0	87.0	88.0	
SEPTEMBER 4, 1841.						
0 00 00	1 23 23	29.890	84.0	81.0	83.0	Maximum at 20 hours - 1 29 56
2 00 00	1 22 46	29.890	82.0	77.0	83.0	Minimum at 14 hours - 1 17 47
4 00 00	1 21 16	29.880	81.0	76.0	82.0	Mean - - - - 1 23 51.5
6 00 00	1 22 54	29.870	80.0	75.0	81.0	
8 00 00	1 23 28	29.868	80.0	74.5	80.0	
10 00 00	1 24 45	29 858	79.0	73.0	79.0	
Noon	1 21 01	29.858	78.5	73.0	78.0	
14 00 00	1 17 47	29.858	78.0	78.0	78.0	
16 00 00	1 21 30	29.859	80.0	82.0	81.0	
18 00 00	1 26 57	29.825	82.0	86.0	83.0	
20 00 00	1 29 56	29.792	84.0	87.6	85.8	
22 00 00	1 27 05	29.803	84.5	87.0	87.0	
SEPTEMBER 5, 1841.						
0 00 00	1 23 07	29.814	84.0	81.5	86.0	Maximum at 20 hours - 1 28 46
2 00 00	1 24 03	29.845	81.0	77.0	82.0	Minimum at 14 hours - 1 19 06
4 00 00	1 23 21	29.860	80.0	74.0	79.0	Mean - - - - 1 23 56
6 00 00	1 24 05	29.902	79 0	70.0	77.0	
8 00 00	1 23 34	29.951	77.0	68 0	74.0	
10 00 00	1 23 52	29.950	77.0	65.0	73.0	
Noon	1 21 46	29.947	76.0	65.0	70.0	
14 00 00	1 19 06	29.977	74.5	70.5	72.0	
16 00 00	1 21 29	30.061	76.5	75.1	77.0	
18 00 00	1 26 51	29.977	78.0	79.0	81.0	
20 00 00	1 28 46	29.962	79.0	81.0	83.0	
22 00 00	1 26 27	29.962	80.0	82.0	83.0	

SEPTEMBER 6, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	*Inches.*	°	°	°
0 00 00	1 24 14	29.974	80.5	79.0	83.0
2 00 00	1 21 48	29.974	79.0	70.0	78.0
4 00 00	1 21 48	30.014	78 0	65.0	75.0
6 00 00	1 21 48	30.014	77.0	63.0	71.0
8 00 00	1 22 20	30.014	76.0	61.0	71.0
10 00 00	1 21 43	30.051	75.0	60.0	66.0
Noon	1 19 47	30.074	76.0	61.0	64.0
14 00 00	1 18 54	30.074	76.0	68.0	68.0
16 00 00	1 21 22	30.125	77.5	75.0	75.0
18 00 00	1 26 45	30.095	79.0	80.0	80.0
20 00 00	1 27 55	30.074	81.0	82.0	82.0
22 00 00	1 25 40	30.073	81.0	82.0	84.0

	° ′ ″
Maximum at 20 hours -	1 27 55
Minimum at 14 hours -	1 18 54
Mean - - -	1 23 24.5

SEPTEMBER 7, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 24 11	30.065	80.0	75.0	82.0
2 00 00	1 23 39	30.073	78.0	70.0	77.0
4 00 00	1 22 56	30.103	75.5	67.0	74.0
6 00 00	1 22 52	30.103	73.0	65.0	71.0
8 00 00	1 21 46	30.121	76.0	64.0	70.0
10 00 00	1 20 05	30.125	76.0	64.0	69.0
Noon	1 18 43	30.143	75.0	65.0	69 0
14 00 00	1 18 51	30.147	74.5	71.5	70.0
16 00 00	1 21 12	30.310	76.5	77.0	74.0
18 00 00	1 27 37	30.193	78.0	81.5	79.0
20 00 00	1 29 02	30.127	78.5	81.5	79.0
22 00 00	1 25 47	30.133	78.5	79.0	81.0

Maximum at 20 hours -	1 29 02
Minimum at 12 hours -	1 18 43
Mean - - -	1 23 52.5

REMARKS.

The barometer is probably recorded .100 inch too high at 16*h*.

SEPTEMBER 8, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 24 09	30.133	78.0	75.0	81.0
2 00 00	1 24 17	30.155	77.0	69.0	78.0
4 00 00	1 20 46	30.091	76.0	67.0	76.0
6 00 00	1 21 17	30.091	75.0	66.0	74 0
8 00 00	1 22 50	30.084	75.0	66.0	72.0
10 00 00	1 21 39	30.084	74.0	65.0	70.0
Noon	1 20 57	30.084	73.0	65.0	70.0
14 00 00	1 19 18	30.095	73.0	70.0	72.0
16 00 00	1 21 48	30.095	75.0	75.0	75.0
18 00 00	1 26 30	30.077	76.0	78.0	77.0
20 00 00	1 27 25	30 067	77.0	78.0	79.0
22 00 00	1 25 30	30.063	77.0	78.0	81.0

Maximum at 20 hours -	1 27 25
Minimum at 14 hours -	1 19 18
Mean - - -	1 23 21.5

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
SEPTEMBER 9, 1841.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 23 53	30.062	77.0	75.0	81.0	Maximum at 20 hours - 1 26 47
2 00 00	1 23 43	30.081	76.5	67.0	77.0	Minimum at 14 hours - 1 18 40
4 00 00	1 23 13	30.071	75.0	64.8	74.0	Mean - - - 1 22 43.5
6 00 00	1 23 12	30.064	73.5	60.8	71.5	
8 00 00	1 23 19	30.064	73.0	60.0	70.0	
10 00 00	1 22 37	30.155	72.0	60.0	68.0	
Noon	1 20 57	30.273	73.0	60.0	67.0	
14 00 00	1 18 40	30.155	73.0	68.4	70.0	
16 00 00	1 21 52	30.174	74.0	71.8	73.0	
18 00 00	1 25 41	30.155	75.0	74.0	76.0	
20 00 00	1 26 47	30.147	76.0	77.3	78.5	
22 00 00	1 24 05	30.161	76.0	76.7	80.0	
SEPTEMBER 10, 1841.						
0 00 00	1 24 11	30.165	76.0	72.7	79.0	Maximum at 20 hours - 1 26 15
2 00 00	1 23 48	30.170	74.0	67.0	75.0	Minimum at 14 hours - 1 18 38
4 00 00	1 23 30	30.155	73.0	62.0	72.0	Mean - - - 1 22 26.5
6 00 00	1 23 06	30.155	72.0	61.0	69.0	
8 00 00	1 22 34	30.155	72.0	60.0	68.0	
10 00 00	1 22 00	30.177	72.0	60.0	66.0	
Noon	1 20 45	30.177	73.0	59.0	64.0	
14 00 00	1 18 38	30.177	72.0	67.0	68.0	
16 00 00	1 21 16	30.188	73.0	71.0	72.0	
18 00 00	1 25 26	30.147	75.0	76.3	77.0	
20 00 00	1 26 15	30.143	76.0	78.0	80.0	
22 00 00	1 24 23	30.143	77.0	78.0	80.0	
SEPTEMBER 11, 1841.						
0 00 00	1 23 21	30.112	76.0	72.0	80.0	Maximum at 18 hours - 1 27 37
2 00 00	1 22 20	30.099	74.0	67.0	76.0	Minimum at 14 hours - 1 19 12
4 00 00	1 21 57	30.103	72.5	63.6	72.0	Mean - - - 1 23 24.5
6 00 00	1 21 31	30.087	71.0	61.8	70.0	
8 00 00	1 21 11	30.050	70.5	60.5	68.0	
10 00 00	1 21 11	30.050	72.0	61.0	66.0	
Noon	1 20 08	30.072	72.0	64.0	66.0	
14 00 00	1 19 12	30.090	72.0	68.8	67.0	
16 00 00	1 23 18	30.027	73.0	70.4	70.0	
18 00 00	1 27 37	30.070	74.0	76.5	74.0	
20 00 00	1 26 19	29.965	76.0	79.0	79.0	
22 00 00	1 23 53	30.027	77.0	81.4	82.0	

SEPTEMBER 12, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 24 03	30.040	77.0	75.2	81.0	Maximum at 20 hours - 1 28 09
2 00 00	1 23 31	30.027	75.0	70.0	78.0	Minimum at 14 hours - 1 17 58
4 00 00	1 23 30	30.052	74.0	67.5	75.0	Mean - - - - 1 23 08.5
6 00 00	1 23 00	30.052	73.0	65.5	72.5	
8 00 00	1 22 40	30.052	73.0	64.0	71.0	
10 00 00	1 21 18	30.052	73.0	64.0	69.0	REMARKS.
Noon	1 19 14	30.081	73.0	64.0	69.0	
14 00 00	1 17 58	30.103	73.5	73.0	72.0	Removed the needle of the V. F. magnetometer from the observatory after the observation at 20*h*., and replaced it after the observation at 22*h*. Deflection allowed for.
16 00 00	1 20 32	30.107	74.0	76 0	75.0	
18 00 00	1 26 33	30.092	76.0	80.0	79.0	
20 00 00	1 28 09	30.057	78.0	83.0	82.0	
22 00 00	1 24 37	30.057	77.5	80.0	83.0	

SEPTEMBER 13, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 23 40	30.057	77.0	76.2	82.0	Maximum at 18 hours - 1 26 43
2 00 00	1 21 56	30.066	76.0	71.0	79.0	Minimum at 10 hours - 1 15 32
4 00 00	1 19 44	30.053	75.0	68.5	76.0	Mean - - - - 1 21 07.5
6 00 00	1 16 30	30.052	75.0	66.8	76.0	
8 00 00	1 17 25	30.032	75.0	66.0	72.5	
10 00 00	1 15 32	30.036	75.0	65.8	72.0	
Noon	1 20 56	30.052	75 0	66.4	71.0	
14 00 00	1 18 25	30.056	74.0	70.6	71.0	
16 00 00	1 23 36	30.073	74.0	73.5	73.0	
18 00 00	1 26 43	30.081	74.0	74.5	74.0	
20 00 00	1 24 09	30.067	74.0	72.0	75.0	
22 00 00	1 23 33	30.077	74.0	71.8	74 0	

SEPTEMBER 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 22 53	30.077	73.0	70.0	74.0	Maximum at 18 hours - 1 29 09
2 00 00	1 23 25	30.077	72.0	65.0	72.0	Minimum at 6 hours - 1 17 32
4 00 00	1 22 18	30.117	71 0	63.0	70.0	Mean - - - - 1 23 20.5
6 00 00	1 17 32	30.117	72.0	64.0	70.0	
8 00 00	1 17 58	30.125	73.0	63.0	69.0	
10 00 00	1 23 59	30.170	73.0	64.0	67.0	
Noon	1 19 59	30.219	71.5	64.0	68.0	
14 00 00	1 19 59	30.258	71.0	66.0	68.0	
16 00 00	1 22 21	30.266	71.0	69.0	70.0	
18 00 00	1 29 09	30.252	71.5	72.0	74.0	
20 00 00	1 28 36	30.243	72.0	74.0	76.0	
22 00 00	1 28 40	30.227	72.5	74.0	78.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.				
			Attached.	Air.	Magnetic observatory.		
SEPTEMBER 15, 1841.							
h. m. s.	° ' "	*Inches.*	°	°	°		° ' "
0 00 00	1 23 02	30.227	72.5		77.0	Maximum at 18 hours -	1 27 09
2 00 00	1 23 15	30.226	72.5		72.0	Minimum at 14 hours -	1 20 26
4 00 00	1 21 54	30.258	72.0	57.0	68.0	Mean - - -	1 23 47.5
6 00 00	1 22 58	30.258	68.0	52.5	64.0		
8 00 00	1 23 21	30.273	69.0	51.0	60.0		
10 00 00	1 22 54	30.273	70.0	50.0	58.0		
Noon	1 20 27	30.325	70.0	48.5	55.0		
14 00 00	1 20 26	30.347	70.0	59.5	59.0		
16 00 00	1 23 04	30.351	70.0	66.8	68.0		
18 00 00	1 27 09	30.338	71.0	71.8	73.0		
20 00 00	1 26 13	30.303	72.0	73.6	74.0		
22 00 00	1 23 30	30.316	73.0	74.0	76.0		
SEPTEMBER 16, 1841.							
0 00 00	1 23 35	30.316	74.0	67.4	76.0	Maximum at 18 hours -	1 27 25
2 00 00	1 22 45	30.316	73.0	63.6	72.0	Minimum at 14 hours -	1 19 34
4 00 00	1 23 08	30.298	70.0	58.6	69.0	Mean - - -	1 23 29.5
6 00 00	1 22 46	30.219	67.5	56.2	67.0		
8 00 00	1 24 00	30.219	69.5	55.0	65.0		
10 00 00	1 23 42	30.231	69.0	52.0	62.0		
Noon	1 20 35	30.310	70.0	54.0	60.0		
14 00 00	1 19 34	30.340	69.5	60.0	61.0		
16 00 00	1 23 18	30.347	70.0	71.0	65.0		
18 00 00	1 27 25	30.329	70.0	74.0	69.0		
20 00 00	1 26 14	30.297	71.0	73.0	70.0		
22 00 00	1 24 22	30.290	71.0	70.0	71.0		
SEPTEMBER 17, 1841.							
0 00 00	1 22 52	30.279	70.0	66.0	70.0	Maximum at 18 hours -	1 28 58
2 00 00	1 19 07	30.240	70.0	63.5	69.0	Minimum at 4 hours -	1 12 23
4 00 00	1 12 23	30.245	69.0	61.4	67.5	Mean - - -	1 20 40.5
6 00 00	1 20 59	30.201	69.0	60.0	66.0		
8 00 00	1 23 21	30.189	69.0	59.2	66.0		
10 00 00	1 21 34	30.187	69.0	58.4	66.0		
Noon	1 20 37	30.187	69.0	57.8	63.5		
14 00 00	1 19 56	30.187	69.0	57.4	63.0		
16 00 00	1 23 39	30.174	68.0	56.0	62.0		
18 00 00	1 28 58	30.116	68.0	58.0	61.0		
20 00 00	1 27 19	30.090	68.0	57.0	61.0		
22 00 00	1 24 32	30.072	67.0	56.5	61.0		

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
SEPTEMBER 18, 1841.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 21 04	30.072	67.0	56.0	60.0	Maximum at 20 hours - 1 29 38
2 00 00	1 22 31	30.072	68.5	56.0	59.0	Minimum at 14 hours - 1 16 44
4 00 00	1 21 23	30.081	69.0	56.0	58.0	Mean - - - - 1 23 11
6 00 00	1 22 43	30.081	69.0	56.0	59.0	
8 00 00	1 22 39	30.081	69.0	55.0	58.0	
10 00 00	1 24 26	30.081	69.0	54.0	57.0	
Noon	1 18 19	30.134	68.0	53.0	56.0	
14 00 00	1 16 44	30.134	69.0	60.0	58.0	
16 00 00	1 22 58	30.134	67.5	64.0	58.0	
18 00 00	1 29 18	30.134	68.5	71.0	70.0	
20 00 00	1 29 38	30.099	69.5	74.0	74.0	
22 00 00	1 26 08	30.108	70.0	74.0	74.0	
SEPTEMBER 19, 1841.						
0 00 00	1 23 46	30.094	70.0	69.0	74.0	Maximum at 18 hours - 1 29 34
2 00 00	1 16 11	30.108	69.0	64.0	72.0	Minimum at 2 hours - 1 16 11
4 00 00	1 22 21	30.134	69.0	62.0	69.0	Mean - - - - 1 22 52.5
6 00 00	1 22 25	30.125	69.0	60.0	69.0	
8 00 00	1 22 21	30.112	69.0	58 0	66.0	
10 00 00	1 20 46	30.152	70.0	56.0	64.0	
Noon	1 19 20	30.182	70.0	56.0	64.0	
14 00 00	1 16 42	30.280	70.0	62.0	67.0	
16 00 00	1 21 32	30.251	70.0	66.4	69.0	
18 00 00	1 29 34	30.201	71.0	70.0	71.0	
20 00 00	1 28 42	30.165	72.0	72.8	75.0	
22 00 00	1 25 45	30.156	73.0	73.0	76.0	
SEPTEMBER 20, 1841.						
0 00 00	1 24 03	30.156	73.0	66.8	74.5	Maximum at 20 hours - 1 27 51
2 00 00	1 23 00	30.156	70.5	62.0	72.0	Minimum at 14 hours - 1 16 42
4 00 00	1 23 15	30.099	70.0	58.0	69.0	Mean - - - - 1 22 16.5
6 00 00		30.094	70.0	57.0	68.0	
8 00 00	1 27 15	30.072	70.0	56.0	66.0	
10 00 00	1 23 27	30.099	70.0	57.0	64.0	
Noon	1 20 50	30.134	69.0	59.0	63.0	
14 00 00	1 16 42	30.161	70.0	64.0	64.0	
16 00 00	1 21 48	30.214	69.5	69.0	66.0	
18 00 00	1 27 10	30.192	70.0	74 0	68.0	
20 00 00	1 27 51	30.161	71.0	73.0	72.0	
22 00 00	1 25 57	30.152	73.0	75.0	76.0	

OBSERVATIONS AT WASHINGTON—1841.

SEPTEMBER 21, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.				
			Attached.	Air.	Magnetic observatory.		
h. m. s.	° ' "	Inches.	°	°	°		° ' "
0 00 00	1 23 38	30.165	71 0	70.0	75.0	Maximum at 18 hours -	1 27 47
2 00 00	1 20 36	30.165	71.0	66.0	73.0	Minimum at 14 hours -	1 19 55
4 00 00	1 22 28	30.156	70.5	63.0	70.0	Mean - - - -	1 23 51
6 00 00	1 22 47	30.143	70.0	60.0	68.0		
8 00 00	1 24 07	30.143	70.0	58.4	66.5		
10 00 00	1 22 49	30.161	70.0	57.2	65.0		
Noon	1 20 53	30.152	69.5	57.0	64.0		
14 00 00	1 19 55	30.170	69.5	61.2	64.0		
16 00 00	1 23 17	30.116	70.5	68.4	68.0		
18 00 00	1 27 47	30.094	72.0	73.4	73.0		
20 00 00	1 26 50	30.077	73.0	75.4	76.0		
22 00 00	1 24 48	30.032	73.0	74.4	76.0		

SEPTEMBER 22, 1841.

0 00 00	1 22 43	30.032	72.0	67.2	74.0	Maximum at 20 hours -	1 27 44
2 00 00	1 21 31	30.019	70.0	64.4	74.0	Minimum at 12 hours -	1 21 17
4 00 00	1 23 10	30.045	68.5	62.0	70 0	Mean - - - -	1 24 30 5
6 00 00	1 23 02	30.032	68.0	62.0	69 0		
8 00 00	1 22 30	30.001	68.0	62.0	68.0		
10 00 00	1 21 31	30.001	69.0	61.5	67.0		
Noon	1 21 17	30.014	68.0	61.0	66.0		
14 00 00	1 22 12	30.001	68.0	66.0	66.0		
16 00 00	1 26 17	29.970	68.5	70.0	68.0		
18 00 00	1 26 38	29.939	69.0	69.0	68.0		
20 00 00	1 27 44	29.899	69.5	72.0	70.0		
22 00 00	1 21 27	29.881	70.0	71.5	70.0		

SEPTEMBER 23, 1841.

0 00 00	1 24 39	29.863	70.0	67.0	72.0	Maximum at 20 hours -	1 25 01
2 00 00	1 23 41	29.850	69.0	64.6	70.0	Minimum at 14 hours -	1 20 19
4 00 00	1 23 38	29.879	69.0	63.8	70.0	Mean - - - -	1 22 40
6 00 00	1 21 37	29.859	67.0	61.0	70.0		
8 00 00	1 21 23	29.840	66.0	61.0	70.0		
10 00 00	1 22 39	29.830	67.0	61.8	70.0		
Noon	1 21 07	29.726	68.0	64.0	74.0		
14 00 00	1 20 19	29.726	69.0	68.4	74.0		
16 00 00	1 21 27	29.796	69.0	73.5	73.0		
18 00 00	1 23 25	29.796	72 0	77.5	76.0		
20 00 00	1 25 01	29.783	75.0	79.0	75.0		
22 00 00	1 24 43	29.786	76.0	79.0	81.0		

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
SEPTEMBER 24, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 20	29.805	74.0	76.0	77.0	Maximum at 22 hours - 1 30 46
2 00 00	1 23 23	29.811	73.0	70.0	75.0	Minimum at 14 hours - 1 18 33
4 00 00	1 24 11	29.807	73.0	69.0	74.0	Mean - - - 1 24 38.5
6 00 00	1 22 12	29.807	73.0	67.0	74.0	
8 00 00	1 21 29	29.716	73.0	67.0	72.0	
10 00 00	1 20 48	29.725	73.0	69.0	72.0	REMARKS.
Noon	1 19 06	29.778	73.0	69.5	72.0	
14 00 00	1 18 33	29.839	73.0	70.0	72.0	At 20*h*. 15*m*., removed the V. F. needle from the observatory. Replaced it at 22*h*. 15*m*. Deflection allowed.
16 00 00	1 20 03	29.839	74.0	74.0	73.0	
18 00 00	1 23 11	29.815	74.0	77.0	75.0	
20 00 00	1 28 30	29.760	75.0	78.6	76.0	
22 00 00	1 30 46	29.708	75.0	75.8	77.0	
SEPTEMBER 25, 1841.						
0 00 00	1 29 56	29.695	74.0	71.6	76.0	Maximum at 20 hours - 1 36 32
2 00 00	1 27 34	29.695	74.0	70.6	76.0	Minimum at 10 hours - 1 07 48
4 00 00	1 13 18	29.738	74.0	70.5	74 0	Mean - - - 1 22 10
6 00 00	1 18 34	29.714	74.0	70.5	76.0	
8 00 00	1 11 51	29.681	73.5	69.0	75.5	
10 00 00	1 07 48	29.681	72.5	65.0	71.5	
Noon	1 17 49	29.681	72.5	63.0	70.0	
14 00 00	1 33 08	29.703	71.0	65.0	69 0	
16 00 00						
18 00 00	1 24 13	29.748	70.5	68.5	72.5	
20 00 00	1 36 32	29.767	71.0	70.0	74.0	
22 00 00	1 26 07	29.849	72.0	69.4	76.0	
SEPTEMBER 26, 1841.						
0 00 00	1 29 15	29.836	72.0	70.0	72.0	Maximum at 4 hours - 1 34 55
2 00 00	1 08 54	29.836	70.0	68.5	71.0	Minimum at 2 hours - 1 08 54
4 00 00	1 34 55	29.885	69.0	55.4	68.0	Mean - - - 1 21 54.5
6 00 00	1 15 24	29.889	69.0	52.4	63.0	
8 00 00	1 28 35	29.894	71.0	50.4	58.0	
10 00 00	1 19 45	29.894	71.0	49.6	58.0	REMARKS.
Noon	1 29 42	29.867	70.0	48.0	56.0	
14 00 00	1 22 30	29.859	63.0	54.4	57.0	A 1*h*. 12 *m*., an auroral arch extending from N. E. to N. W. by W. Altitude at 1*h*. 30*m*.—18°. At 2*h*. 30*m*., it was entirely obscured in the moonlight.
16 00 00	1 28 48	29.863	65.0	60.0	60.0	
18 00 00	1 28 59	29.846	68.0	67.0	68.0	
20 00 00	1 25 14	29.849	70.0	71.0	71.0	
22 00 00	1 25 14	29.863	72.0	74.0	74.0	

OBSERVATIONS AT WASHINGTON—1841.

SEPTEMBER 27, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 23 28	29.897	72.0	74.0	70.0	Maximum at hours -
2 00 00	1 19 28	29.903	71.0	64.0	71.0	Minimum at hours -
4 00 00	1 28 47	30.023	71.0	63.0	68.0	Mean - - -
6 00 00	1 20 42	30.057	70.0	58.5	65.0	
8 00 00	1 28 31	30.057	68.5	54.5	62.0	
10 00 00	1 27 19	30.057	67.0	51.0	60.0	REMARKS.
Noon	1 19 14	30.089	66.0	49.0	57.0	
14 00 00	1 25 37	30.169	67.0	56.5	59.0	At 16, 18, and 20h., examining the adjustments of the declinometer.
16 00 00		30.180	68.0	64.0	64.0	
18 00 00		30.143	68.5	67.0	73.0	
20 00 00		30.126	69.0	70.0	74.0	
22 00 00	1 22 56	30.094	70.0	73.0	74.0	

SEPTEMBER 28, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 28	30.063	70.0	66.0	73.0	Maximum at 20 hours - 1 28 50
2 00 00	1 22 24	30.078	69.5	66.0	70.0	Minimum at 14 hours - 1 19 32
4 00 00	1 23 08	30.035	68.0	60.5	68.0	Mean - - - 1 24 11
6 00 00	1 21 12	30.065	70.0	60.0	66.0	
8 00 00	1 22 51	30.023	69.0	60.0	64.0	
10 00 00	1 22 51	30.018	69.0	59.0	64.0	
Noon	1 28 32	30.014	69.0	63.0	65.0	
14 00 00	1 19 32	30.014	70.0	63.0	67.0	
16 00 00	1 23 37	30.018	71.0	74.0	72.0	
18 00 00	1 27 42	30.007	73.0	79.0	77.0	
20 00 00	1 28 50	30.003	74.0	80.4	79.0	
22 00 00	1 24 52	29.916	74.0	78.0	79.0	

SEPTEMBER 29, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 52	29.896	73.5	74.0	78.0	Maximum at 18 hours - 1 28 35
2 00 00	1 21 18	29.891	73.0	71.4	76.0	Minimum at 8 hours - 1 17 24
4 00 00	1 23 48	29.891	73.0	70.0	74.0	Mean - - - 1 22 59.5
6 00 00	1 20 10	29.891	73.0	69.0	74.0	
8 00 00	1 17 24	29.891	73.0	69.0	73.0	
10 00 00	1 22 04	29.886	73.0	67.0	72.0	
Noon	1 19 30	29.890	73.0	67.0	72.0	
14 00 00	1 18 52	29.890	72.5	69.0	71.0	
16 00 00	1 27 36	29.849	73.0	73.6	72.0	
18 00 00	1 28 35	29.827	74.0	76.3	76.0	
20 00 00	1 28 16	29.812	75.0	79.2	80.0	
22 00 00	1 24 39	29.778	75.5	78.0	80.0	

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
			SEPTEMBER 30, 1841.			
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 50	29.783	73.5	64.3	79.0	Maximum at 18 hours - 1 28 33
2 00 00	1 23 38	29.803	73.0	61.4	74.0	Minimum at 4 hours - 1 15 21
4 00 00	1 15 21	29.859	73.0	61.0	70.0	Mean - - - 1 21 57
6 00 00	1 19 30	29.886	72.0	60.0	67.0	
8 00 00	1 23 26	29.886	72.0	59.0	66.0	
10 00 00	1 23 59	29.886	71.0	56.0	64.0	
Noon	1 20 48	29.929	71.0	54.0	62.0	
14 00 00	1 18 23	29.971	70.5	56.0	63.0	
16 00 00	1 22 03	29.957	69.0	61.5	64.0	
18 00 00	1 28 33	29.934	69.0	63.5	67.0	
20 00 00	1 27 41	29.934	68.5	64.0	67.0	
22 00 00	1 24 04	29.971	69.0	62.5	66.0	
			OCTOBER 1, 1841.			
0 00 00	1 19 24	30.030	68.5	58.0	66.0	Maximum at 18 hours - 1 27 02
2 00 00	1 14 14	30.030	68.0	53.4	60.0	Minimum at 2 hours - 1 14 14
4 00 00	1 23 31	30.114	68.5	50.2	58.0	Mean - - - 1 20 38
6 00 00	1 23 31	30.121	68.5	48.4	56.0	
8 00 00	1 23 32	30 131	69.0	46.0	54.0	
10 00 00	1 22 48	30.149	69.0	44.0	52.0	
Noon	1 22 12	30.179	67.0	43.0	50.0	
14 00 00	1 19 09	30.206	67.0	48.2	58.0	
16 00 00	1 23 31	30.238	66.0	55.0	56.0	
18 00 00	1 27 02	30.228	65.0	59.0	60.0	
20 00 00	1 26 15	30.233	66.0	61.5	63.0	
22 00 00	1 24 45	30.251	67.0	62.5	65.0	
			OCTOBER 2, 1841.			
0 00 00	1 23 49	30.251	67.0	55.0	64.0	Maximum at 20 hours - 1 28 01
2 00 00	1 23 16	30.282	66.0	49.0	59.0	Minimum at 14 hours - 1 20 11
4 00 00	1 24 07	30 282	67.5	47.5	56.0	Mean - - - 1 24 06
6 00 00	1 25 04	30.282	67.0	47.0	54.0	
8 00 00	1 22 32	30.282	65.0	47.0	54.0	
10 00 00	1 22 27	30.291	65.0	45.0	54.0	
Noon	1 22 32	30.291	65.0	46.0	59.0	
14 00 00	1 20 11	30.291	65.0	49.0	56.0	
16 00 00		30 362	65.0	56.5	56.0	
18 00 00	1 27 53	30.304	66.0	58.0	59.0	
20 00 00	1 28 01	30.273	66.0	58.0	60 0	
22 00 00	1 25 37	30.229	66.0	56.0	59.0	

OBSERVATIONS AT WASHINGTON—1841.

OCTOBER 3, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 35	30.234	66.5	52.0	57.0	Maximum at 20 hours - 1 27 35
2 00 00	1 23 56	30.251	67 0	49.0	55.0	Minimum at 14 hours - 1 18 34
4 00 00	1 19 21	30.157	65.0	47.0	53.0	Mean - - - - 1 23 04.5
6 00 00	1 24 59	30.166	64.5	46.0	52.0	
8 00 00	1 22 52	30.130	65.0	44 0	50.0	
10 00 00	1 22 19	30.060	64.0	45.0	49.0	REMARKS.
Noon	1 20 50	30 084	64.5	44.0	49.0	
14 00 00	1 18 34	30.084	63.5	44.0	49.0	Observation at 0*h.* somewhat doubtful, from agitation of the needle.
16 00 00	1 21 56	30.064	64.0	43.6	48.0	
18 00 00	1 27 10	30.042	62.5	44.0	48.0	
20 00 00	1 27 35	30.037	62.0	44.0	48.0	
22 00 00	1 25 29	30.037	62.0	44 0	48.0	

OCTOBER 4, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 29	30.068	62.0	43 6	48.0	Maximum at 20 hours - 1 28 42
2 00 00	1 24 28	30 130	62.5	43.5	47.0	Minimum at 8 hours - 1 16 21
4 00 00	1 19 34	30.130	62.0	43.0	46.0	Mean - - - - 1 22 31.5
6 00 00	1 22 20	30.130	62.5	42.0	45.0	
8 00 00	1 16 21	30.121	63.0	40.0	44.0	
10 00 00	1 22 13	30.100	63.0	41.0	45.0	
Noon	1 20 56	30.159	62.0	42 0	45 0	
14 00 00	1 20 01	30.221	60.5	44.0	47.0	
16 00 00	1 23 27	30.153	60.0	49.0	51.0	
18 00 00	1 28 20	30.157	60.0	54.0	54 0	
20 00 00	1 28 42	30.138	60.0	56.0	57 0	
22 00 00	1 25 21	30.184	62.0	47.5	58 0	

OCTOBER 5, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 12	30.184	62 0	53.0	58.0	Maximum at 20 hours - 1 27 35
2 00 00	1 23 32	30 181	62.0	45.8	54.0	Minimum at 14 hours - 1 20 15
4 00 00	1 23 48	30.202	62.0	45.6	51.0	Mean - - - - 1 23 55
6 00 00	1 23 54	30.211	62.0	43 5	50.0	
8 00 00	1 23 03	30.219	62.0	41 0	47.0	
10 00 00	1 23 03	30.223	61.5	38.0	45.0	
Noon	1 21 50	30.236	61.0	39.0	41.0	
14 00 00	1 20 15	30.248	60.0	45.0	48.0	
16 00 00	1 21 36	30.282	60.0	51.5	50.0	
18 00 00	1 25 45	30.256	60 0	55.0	55 0	
20 00 00	1 27 35	30.219	60.5	57.0	58 0	
22 00 00	1 26 35	30.219	61.5	58.0	60.0	

OCTOBER 6, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 12	30.219	61.5	55.0	58.0	Maximum at 20 hours - 1 29 45
2 00 00	1 19 31	30.211	61.5	47.0	55.0	Minimum at 10 hours - 1 16 16
4 00 00	1 23 16	30.211	61.0	44.0	52.0	Mean - - - - 1 23 00.5
6 00 00	1 23 42	30.211	61.0	44.0	50.0	
8 00 00	1 22 49	30.211	61.0	43.0	50.0	
10 00 00	1 16 16	30.207	60.5	42.0	48.0	
Noon	1 18 10	30.222	59.0	40.0	46.0	
14 00 00	1 20 14	30.226	60.0	45.0	50.0	
16 00 00	1 24 06	30.273	58.0	53.0	53.0	
18 00 00	1 26 49	30.202	58.0	56.3	57.0	
20 00 00	1 29 45	30.207	59.0	59.0	60.0	
22 00 00	1 27 35	30.207	60.5	59.0	61.0	

OCTOBER 7, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 10	30.193	59.5	53.0	60.0	Maximum at 22 hours - 1 24 44
2 00 00	1 22 37	30.193	60.5	45.5	56.0	Minimum at 14 hours - 1 20 59
4 00 00	1 23 06	30.206	63.0	44.0	52.0	Mean - - - - 1 22 51.5
6 00 00	1 23 06	30.206	63.0	42.0	50.0	
8 00 00	1 23 06	30.206	63.0	39.0	48.0	
10 00 00	1 21 04	30.184	63.0	37.5	46.0	
Noon	1 23 18	30.184	61.0	35.5	44.0	
14 00 00	1 20 59	30.184	60.5	44.0	46.0	
16 00 00	1 22 45	30.117	63.0	53.6	51.0	
18 00 00	1 24 35	30.045	63.0	63.5	58.0	
20 00 00	1 23 56	30.006	64.0	66.4	62.0	
22 00 00	1 24 44	29.979	64.0	63.0	64.0	

OCTOBER 8, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 09	29.961	65.0	59.0	62.0	Maximum at 22 hours - 1 29 25
2 00 00	1 24 07	29.961	66.0	57.0	62.0	Minimum at 14 hours - 1 20 44
4 00 00	1 23 32	29.961	66.0	55.0	60.0	Mean - - - - 1 25 04.5
6 00 00	1 22 21	29.989	66.0	53.0	59.0	
8 00 00	1 21 29	29.989	65.0	52.0	57.0	
10 00 00	1 22 54	29.989	65.0	53.0	57.0	
Noon	1 21 22	29.999	65.0		57.0	
14 00 00	1 20 44	29.989	64.0	54.0	57.0	
16 00 00	1 22 12	29.906	64.8	57.0	58.0	
18 00 00	1 25 37	29.879	65.0	59.0	58.0	
20 00 00	1 27 49	29.857	65.0	60.0	58.0	
22 00 00	1 29 25	29.853	65.0	60.0	60.0	

OCTOBER 9, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 20 36	29.853	64.0	60.0	60.0	Maximum at 18 hours - 1 26 50
2 00 00	1 23 50	29.853	64.0	55.0	58.0	Minimum at 0 hours - 1 20 36
4 00 00	1 24 18	29.917	64.0	53.0	57.0	Mean - - - 1 23 43
6 00 00	1 24 26	29.917	63.5	51.0	56.0	
8 00 00	1 24 50	29.930	64.5	49.0	54.0	
10 00 00	1 22 37	29.960	66.0	48.0	54.0	
Noon	1 21 47	30.002	66.0	46.0	52.0	
14 00 00	1 21 23	30.013	65.0	50.0	54.0	
16 00 00	1 23 00	30,060	64.0	61.5	57.0	
18 00 00	1 26 50	30.033	64.0	64.0	62.0	
20 00 00	1 26 28	30.015	65.0	65.0	65.0	
22 00 00	1 20 56	30.033	66.0	66.5	67.0	

OCTOBER 10, 1841.

0 00 00	1 23 11	30.051	67.0	61.0	65.0	Maximum at 20 hours - 1 27 23
2 00 00	1 21 42	30.054	66.0	52.0	62.0	Minimum at 16 hours - 1 20 26
4 00 00	1 21 55.	30.078	66.0	49.0	58.0	Mean - - - 1 23 54.5
6 00 00	1 24 11	30.078	66.0	47.0	56.0	
8 00 00	1 22 59	30.119	65.0	42.0	52.0	
10 00 00	1 24 59	30.128	64.0	44.0	50.0	
Noon	1 24 59	30.173	64.0	42.0	48.0	
14 00 00	1 21 22	30.245	63.0	45.0	54.0	
16 00 00	1 20 26	30.317	64.5	55.0	56.0	
18 00 00	1 25 19	30.308	65.0	58.0	61.0	
20 00 00	1 27 23	30.260	66.0	61.0	64.0	
22 00 00	1 26 22	30.246	66.0	61.0	65.0	

OCTOBER 11, 1841.

0 00 00	1 23 44	30.246	66.0	57.0	64.0	Maximum at 18 hours - 1 27 03
2 00 00	1 19 50	30.246	65.0	48.0	58.0	Minimum at 2 hours - 1 19 50
4 00 00	1 22 53	30.255	65.5	44.0	54.0	Mean - - - 1 23 26.5
6 00 00	1 21 17	30.237	65.5	43.0	52.0	
8 00 00	1 25 21	30.237	64.5	41.5	50.0	
10 00 00	1 22 38	30.237	64.5	41.0	48.0	
Noon	1 22 57	30.237	64.5	40.0	46.0	
14 00 00	1 21 02	30.246	63.5	47.0	47.0	
16 00 00	1 23 13	30.184	63.5	57.5	52.0	
18 00 00	1 27 03	30.139	65.0	62.8	58.0	
20 00 00	1 26 39	30.101	66.0	67.5	62.0	
22 00 00	1 24 51	30.073	65.5	66.0	64.0	

OCTOBER 12, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 23 51	30.051	66.5	64.5	64.0	Maximum at 18 hours - 1 28 23
2 00 00	1 21 06	30.051	67.0	62 0	63.0	Minimum at 14 hours - 1 19 36
4 00 00	1 24 24	30.011	67.0	62.0	63.0	Mean - - - 1 23 59.5
6 00 00	1 24 12	29.987	68.0	61.5	62.0	
8 00 00	1 23 42	29.961	68.5	61.5	63.0	
10 00 00	1 23 06	29.957	68.0	60.5	62.0	
Noon	1 22 31	29.939	67.5	60.5	62.0	
14 00 00	1 19 36	29.939	67.0	61.0	62.0	
16 00 00	1 23 17	29.917	67 0	65.0	63.0	
18 00 00	1 28 23	29.897	66.0	66.0	64.0	
20 00 00	1 27 03	29.885	67.5	66.0	65.0	
22 00 00	1 24 32	29.873	66 5	66.0	65.0	

OCTOBER 13, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 02	29.881	67.0	65.0	66.0	Maximum at 20 hours - 1 27 53
2 00 00	1 24 02	29.883	67.0	63.5	68.0	Minimum at 14 hours - 1 20 36
4 00 00	1 24 02	29.917	68.0	61.5	64.0	Mean - - - 1 24 14.5
6 00 00	1 23 55	29.930	69.0	59.0	62.0	
8 00 00	1 23 28	29.959	69.5	58.0	62.0	
10 00 00	1 24 01	30.039	69.0	54.5	62.0	
Noon	1 22 23	30.039	67.0	53.0	59.0	
14 00 00	1 20 36	30 091	67.0	51.5	56.0	
16 00 00	1 22 55	30.170	66.0	53.0	57.0	
18 00 00	1 27 20	30.152	65.0	56.0	60.0	
20 00 00	1 27 53	30.136	65.0	58.0	61.0	
22 00 00	1 26 51	30.136	65.0	51.5	60.0	

OCTOBER 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 51	30.206	65.0	50.0	58.0	Maximum at 18 hours - 1 28 35
2 00 00	1 22 13	30.203	65 0	47.5	58.0	Minimum at 14 hours - 1 19 56
4 00 00	1 23 43	30.203	65.0	48.0	55.0	Mean - - - 1 24 15.5
6 00 00	1 23 35	30.191	65.0	48.0	52.0	
8 00 00	1 24 22	30.195	64.5	48.0	51.0	
10 00 00	1 22 32	30.179	64.0	48.5	50.0	
Noon	1 20 32	30.247	64.0	44.0	48.0	
14 00 00	1 19 56	30.317	61.5	45 5	48.0	
16 00 00	1 23 42	30.354	61.5	52.0	51.0	
18 00 00	1 28 35	30.336	62.5	55.0	53.5	
20 00 00	1 28 00	30.298	62.5	57.0	56.0	
22 00 00	1 26 13	30.298	63.0	57.5	57.0	

OBSERVATIONS AT WASHINGTON—1841.

OCTOBER 15, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 25 13	30.262	63.5	57.0	56 0	Maximum at 20 hours - 1 28 13
2 00 00	1 23 08	30.306	62.5	46 5	53.0	Minimum at 4 hours - 1 15 55
4 00 00	1 15 55	30.300	62.0	43.0	50.0	Mean - - - 1 22 04
6 00 00	1 21 52	30.292	63.0	43.0	48 0	
8 00 00	1 19 48	30.295	63.0	41.0	48.0	
10 00 00	1 23 08	30.290	62.0	39.0	46.0	
Noon	1 24 01	30.288	61.0	37.0	44.0	
14 00 00	1 20 12	30.276	59.0	42.0	46.0	
16 00 00	1 22 05	30.171	57.5	51.5	49.0	
18 00 00	1 27 42	30.079	62.0	59.0	56.0	
20 00 00	1 28 13	30.035	64.0	63.0	60.0	
22 00 00	1 25 06	29.995	63.0	64.0	62.0	

OCTOBER 16, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 16	29.995	63.0	57.0	62.0	Maximum at 20 hours - 1 28 44
2 00 00	1 22 27	30.028	63.0	56.5	59.0	Minimum at 14 hours - 1 19 41
4 00 00	1 21 28	30.052	63.0	56.0	58 0	Mean - - - 1 24 12.5
6 00 00	1 22 32	30 054	64.0	55.0	57 0	
8 00 00	1 23 06	30 052	63.5	53.0	56.0	
10 00 00	1 23 06	30.052	64.0	53.0	55.0	
Noon	1 22 22	30.084	65.0	53.0	54.0	
14 00 00	1 19 41	30 094	61.0	53.0	54.0	
16 00 00	1 21 11	30.117	62.0	51.0	54.0	
18 00 00	1 28 43	30.145	62.5	50.0	54.0	
20 00 00	1 28 44	30.135	62.5	48.0	54.0	
22 00 00	1 25 47	30.135	62.0	47.0	52.5	

OCTOBER 17, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 01	30.141	61.0	46.0	52.0	Maximum at 20 hours - 1 26 08
2 00 00	1 23 17	30.139	60.5	45.0	51.0	Minimum at 14 hours - 1 19 58
4 00 00	1 22 21	30.173	61.0	45.0	50.0	Mean - - - 1 23 03
6 00 00	1 21 34	30.247	61.0	42.0	49.0	
8 00 00	1 25 12	30.247	61.0	40.0	48.0	
10 00 00	1 24 15	30.253	61.0	38.0	46.0	
Noon	1 22 01	30.251	60.5	40.0	44 0	
14 00 00	1 19 58	30.279	60.0	45.0	44.0	
16 00 00	1 21 32	30.310	58.0	46.0	46.0	
18 00 00	1 25 59	30.296	59.0	48.5	48.0	
20 00 00	1 26 08	30.284	59.5	51.0	51.0	
22 00 00	1 24 52	30.284	59.0	51.0	52.0	

OCTOBER 18, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 30	30.304	58.0	47.0	50.0	Maximum at 18 hours - 1 27 45
2 00 00	1 18 16	30.287	58.5	43.0	48.0	Minimum at 2 hours - 1 18 16
4 00 00	1 23 21	30.287	58.0	43.0	45.0	Mean - - - 1 23 00.5
6 00 00	1 23 07	30.289	58.0	36.5	42.0	
8 00 00	1 24 54	30.287	58.5	34.5	40.0	
10 00 00	1 22 48	30.287	59.5	33.5	39.0	
Noon	1 20 58	30.287	58.0	33.0	38.0	
14 00 00	1 19 19	30.289	55.0	39 0	39.0	
16 00 00	1 21 13	30.287	55.0	46.5	44.0	
18 00 00	1 27 45	30.290	57.0	49.5	49.0	
20 00 00	1 26 48	30.290	57.0	50.0	52.0	
22 00 00	1 27 20	30.276	57.0	48.0	54.0	

OCTOBER 19, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 24 35	30.276	57.0	47.0	50 0	Maximum at 18 hours - 1 27 54
2 00 00	1 23 12	30.292	56.5	39.0	47.0	Minimum at 14 hours - 1 19 52
4 00 00	1 23 23	30.312	56.0	37.0	44.0	Mean - - - 1 23 53
6 00 00	1 21 25	30.290	57.0	32.5	41.0	
8 00 00	1 22 58	30.276	56.0	33.0	39.0	
10 00 00	1 23 27	30.254	55.0	32.0	38.0	
Noon	1 21 45	30.222	53.0	30.5	35.0	
14 00 00	1 19 52	30.226	52.0	35.5	37.0	
16 00 00	1 22 17	30.218	55.0	45.0	40.0	
18 00 00	1 27 54	30.134	56.0	53.0	46.0	
20 00 00	1 26 48	30.092	57.0	54.0	48.0	
22 00 00	1 26 48	30.056	57.0	52.0	49.0	

OCTOBER 20, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 24 10	30.026	55.5		49.0	Maximum at 18 hours - 1 26 35
2 00 00	1 18 09	29.970	55.5	45.0	48.0	Minimum at 2 hours - 1 18 09
4 00 00	1 23 10	29.895	57.0	44.0	48.0	Mean - - - 1 22 22
6 00 00	1 23 55	29.886	57.5	44.0	48.0	
8 00 00	1 23 38	29.792	57.0	44.0	47.0	
10 00 00	1 23 40	29.736	57.0	44.0	47.0	
Noon	1 24 25	29.710	57.0	44.5	46.0	
14 00 00	1 22 43	29.686	56.0	45.5	47.0	
16 00 00	1 22 21	29.659	57.0	50.5	48.0	
18 00 00	1 26 35	29.585	57.0	56.5	55.0	
20 00 00	1 25 49	29.621	57.0	55.0	59.0	
22 00 00	1 26 13	29.621	57.5	53.5	58.0	

REMARKS.

At 18*h*. 15*m*., removed the vertical force magnet from the observatory; replaced it at 20*h*. 15*m*. Deflection allowed.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
OCTOBER 21, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 01	29.607	57.0	47.5	58.0	Maximum at 14 hours - 1 28 37
2 00 00	1 24 05	29.607	56.5	46.0	60.0	Minimum at 6 hours - 1 17 02
4 00 00	1 18 09	29.607	56.0	45.0	58.0	Mean - - - 1 22 49.5
6 00 00	1 17 02	29.607	56.0	42.0	56.0	
8 00 00	1 17 54	29.607	56.0	42.0	54.0	
10 00 00	1 27 55	29.602	57.0	41.0	54.0	
Noon	1 23 17	29.586	56 0	40.0	53.0	
14 00 00	1 28 37	29.586	55.0	43.0	51.0	
16 00 00	1 27 23	29.639	53 0	53.0	51.0	
18 00 00	1 26 04	29.624	56.5	53.0	55.0	
20 00 00	1 25 37	29.712	56.0	54.5	59.0	
22 00 00	1 24 56	29.708	57.0	54.0	60.0	
OCTOBER 22, 1841.						
0 00 00	1 24 11	29.702	57.0	49.5	54.0	Maximum at 20 hours - 1 26 45
2 00 00	1 22 57	29.678	57.0	47.0	52.0	Minimum at 14 hours - 1 20 44
4 00 00	1 23 46	29.675	58.0	43.0	50.0	Mean - - - 1 23 44.5
6 00 00	1 23 42	29.660	58.0	41.0	47.0	
8 00 00	1 23 28	29.681	58.0	40.5	47.0	
10 00 00	1 23 39	29.683	58.0	36.0	44.0	
Noon	1 22 39	29.681	58.0	37.5	42.0	
14 00 00	1 20 44	29.691	57.0	43.0	43.0	
16 00 00	1 22 38	29.738	56.0	49.5	47.0	
18 00 00	1 26 27	29.738	58.0	51.5	49.0	
20 00 00	1 26 45	29.736	58.0	52.0	52.0	
22 00 00	1 24 45	29.756	58.0	50.5	51.0	
OCTOBER 23, 1841.						
0 00 00	1 24 27	29.780	58.0	47.0	50.0	Maximum at 18 hours - 1 26 18
2 00 00	1 24 46	29.864	58.0	45.5	49.0	Minimum at 14 hours - 1 20 57
4 00 00	1 21 35	29.902	59.0	44.0	48.5	Mean - - - 1 23 37.5
6 00 00	1 23 26	29.914	58.5	44.0	46.0	
8 00 00	1 23 36	29.914	58.0	42.5	46.0	
10 00 00	1 24 00	29.914	55.5	43.0	45.0	REMARKS.
Noon	1 23 06	29.914	55.0	40.0	44.0	
14 00 00	1 20 57	29.948	54.0	44.0	44.0	Removed the vertical force magnet at 18*h.* 10*m.*, and replaced it at 20*h.* 10*m.* Deflection allowed.
16 00 00	1 22 19	29.936	55.5	52.0	47.0	
18 00 00	1 26 18	29.886	56.0	54.0	50.0	
20 00 00	1 25 52	29.836	57.0	55.0	57.0	
22 00 00	1 24 30	29.806	59.0	52.0	53.0	

OCTOBER 24, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 54	29.806	59.0	49.0	51.0	Maximum at 18 hours - 1 25 24
2 00 00	1 23 55	29.810	59.0	45.5	49.0	Minimum at 14 hours - 1 21 09
4 00 00	1 23 53	29.796	59.0	45.0	49.0	Mean - - - 1 23 16.5
6 00 00	1 24 01	29.796	59.0	44.5	47 0	
8 00 00	1 23 58	29.816	59.0	44.5	45.0	
10 00 00	1 23 58	29.836	59.0	42.0	45.0	REMARKS.
Noon	1 23 20	29 830	58.0	39.0	44.0	
14 00 00	1 21 09	29.902	57.0	40.0	44.0	Removed the vertical force magnet after the observation at 18*h*., and replaced it after that at 20*h*. Deflection allowed.
16 00 00	1 22 15	29.967	55.5	46.5	46.0	
18 00 00	1 25 24	29.965	57.0	47.0	48.0	
20 00 00	1 24 46	29.965	57.0	47.0	51.0	
22 00 00	1 24 56	29.968	57.0	47.0	50.0	

OCTOBER 25, 1841.

0 00 00	1 24 09	30.015	57.0	46.0	48 0	Maximum at 14 hours - 1 33 10
2 00 00	1 21 43	30.015	56.0	40.0	45.0	Minimum at 8 hours - 1 15 11
4 00 00	1 19 16	30.015	55.0	37.0	43.0	Mean - - - 1 24 10.5
6 00 00	1 16 44	30.076	56.0	36.0	41.0	
8 00 00	1 15 11	30.088	56.0	34.0	39.0	
10 00 00	1 17 39	30 132	56.0	33.0	38.0	
Noon	1 27 33	30 190	55.0	33.0	36.0	REMARKS.
14 00 00	1 33 10	30.250	54.0	35.0	38.0	
16 00 00	1 23 44	30.314	50.5	40.0	39.0	Observation at 14*h*. somewhat doubtful, from vibration of the needle.
18 00 00	1 30 42	30.322	54 0	42.5	42.0	
20 00 00	1 29 00	30.322	54.5	44.0	51.0	
22 00 00	1 29 21	30.326	54.0	42.0	45.5	

OCTOBER 26, 1841.

0 00 00	1 24 30	30.352	55.0	37 5	43.0	Maximum at 12 hours - 1 29 46
2 00 00	1 23 19	30.350	54.0	30.0	40.0	Minimum at 4 hours - 1 21 22
4 00 00	1 21 22	30 353	53.0	28.5	37.0	Mean - - - 1 25 34
6 00 00	1 24 58	30.353	53.0	27.0	34.0	
8 00 00	1 25 16	30.351	53.0	27.0	33.0	
10 00 00	1 24 09	30.311	53.0	27.0	33.0	
Noon	1 29 46	30.311	52.5	27.0	32.0	
14 00 00	1 28 41	30.309	53 0	27.0	32 0	
16 00 00	1 26 04	30 252	51.5	40.0	37.0	
18 00 00	1 27 56	30.138	53.0	48.0	43.0	
20 00 00	1 26 14	30.090	55.0	51 0	50.0	
22 00 00	1 22 15	30.064	56.0	54.5	53.0	

OBSERVATIONS AT WASHINGTON—1841.

OCTOBER 27, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 08	30.060	56.0	54.0	52.0	Maximum at 18 hours - 1 27 48
2 00 00	1 19 46	30.086	56.0	49.5	50.0	Minimum at 2 hours - 1 19 46
4 00 00	1 23 12	30.120	56.0	46.0	49.0	Mean - - - 1 23 44.5
6 00 00	1 25 39	30.164	56.0	41.0	47.0	
8 00 00	1 25 50	30.180	56.0	38.0	45.0	
10 00 00	1 25 50	30.190	56.0	37.0	43.0	
Noon	1 26 17	30.236	56.0	35.0	41.0	
14 00 00	1 24 57	30.266	56.0	38.0	41.0	
16 00 00	1 25 48	30.266	54.5	47.0	46.0	
18 00 00	1 27 48	30.238	57.5		52.0	
20 00 00	1 26 42	30.240	58.5	61.0	57.0	
22 00 00	1 26 21	30.240	60.0	61.0	59.0	

OCTOBER 28, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 31	30.240	56.0	52.0	57.0	Maximum at 18 hours - 1 27 39
2 00 00	1 22 32	30.236	57.0	44.5	53.0	Minimum at 4 hours - 1 20 45
4 00 00	1 20 45	30.280	57.0	40.5	50.0	Mean - - - 1 24 12
6 00 00	1 21 59	30.310	57.0	40.0	48.0	
8 00 00	1 21 41	30.326	58.0	40.0	46.0	
10 00 00	1 23 38	30.346	58.0	39.0	44.0	
Noon	1 23 39	30.416	58.0	38.0	42.0	
14 00 00	1 23 40	30.436	57.0	40.0	42.0	
16 00 00	1 24 23	30.460	57.0	45.0	44.5	
18 00 00	1 27 39	30.478	59.0	52.0	50.0	
20 00 00	1 26 39	30.464	58.0	55.0	53.0	
22 00 00	1 24 36	30.458	58.5	54.0	54.5	

OCTOBER 29, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 39	30.458	59.0	45.0	54.5	Maximum at 20 hours - 1 30 25
2 00 00	1 22 18	30.456	57.0	52.0	52.0	Minimum at 22 hours - 1 18 19
4 00 00	1 22 57	30.486	57.0	50.0	52.0	Mean - - - 1 24 22
6 00 00	1 23 02	30.488	57.0	48.5	51.0	
8 00 00	1 22 52	30.486	57.0	46.0	50.0	
10 00 00	1 22 25	30.488	57.0	44.0	49.0	
Noon	1 21 57	30.480	58.0	41.0	49.0	
14 00 00	1 21 46	30.474	58 0	40.5	48.5	
16 00 00	1 23 18	30.440	59.0	57.0	52.0	
18 00 00	1 27 16	30.454	60.0	62.0	57.0	
20 00 00	1 30 25	30.360	61.0	66.0	61.0	
22 00 00	1 18 19	30.384	62.0	63.0	62.0	

OCTOBER 30, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00		30.346			60.0	Maximum at 18 hours - 1 25 28
2 00 00	1 22 40	30.384	63 0	55.0	59.0	Minimum at 14 hours - 1 19 18
4 00 00	1 22 59	30.372	63.5	51.5	57.0	Mean - - - - 1 22 23
6 00 00	1 22 39	30.404	63.0	49.0	54.5	
8 00 00	1 22 39	30.404	63.0	50.5	54.0	
10 00 00	1 21 29	30.404	63.5	51.0	53.0	
Noon	1 21 59	30.404	63.5	52.0	53.0	
14 00 00	1 19 18	30.436	63.5	54.0	54.0	
16 00 00	1 21 58	30.438	64.0	59.0	56.0	
18 00 00	1 25 28	30.408	63.0	62.0	57.5	
20 00 00	1 24 40	30.392	64.0	64.0	59.0	
22 00 00	1 24 19	30.392	64.0	62.0	61.0	

OCTOBER 31, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 34	30.392	64.0	58.5	62.0	Maximum at 20 hours - 1 26 43
2 00 00	1 21 06	30.342	65.0	55.5	60.0	Minimum at 2 hours - 1 21 06
4 00 00	1 21 10	30.342	66.0	54.0	59.0	Mean - - - - 1 23 54.5
6 00 00	1 21 10	30.346	66.5	52.0	59.0	
8 00 00	1 21 10	30.348	66.0	52.0	56.0	
10 00 00	1 22 13	30.348	66.0	52.0	53.0	
Noon	1 22 13	30.376	66.0	51.0	54.0	
14 00 00	1 21 25	30.486	65.0	55.0	53.0	
16 00 00	1 22 11	30.484	63.5	55.5	54.0	
18 00 00	1 25 56	30.478	65.0	58.5	55.5	
20 00 00	1 26 43	30.440	64.5	60.5	56.5	
22 00 00	1 25 10	30.434	64.0	61.5	58.0	

NOVEMBER 1, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 44	30.426	64.0	63.0	59.0	Maximum at 20 hours - 1 26 51
2 00 00	1 23 40	30.422	65.0	56.0	58.0	Minimum at 14 hours - 1 20 31
4 00 00	1 24 22	30.416	66.0	56.0	57.0	Mean - - - - 1 23 41
6 00 00	1 23 00	30.386	66.0	54.5	56.0	
8 00 00	1 23 04	30.374	66.0	53.0	54.0	
10 00 00	1 23 01	30.356	66.0	52.5	53.0	
Noon	1 22 40	30.356	66.0	55.0	55.0	
14 00 00	1 20 31	30.356	66.0	58.0	56.0	
16 00 00	1 23 09	30.318	66.0	66.0	60.0	
18 00 00	1 26 39	30.268	68.0	73.0	66.0	
20 00 00	1 26 51	30.202	70.0	74.0	70.0	
22 00 00	1 24 05	30.174	70.0	72.0	71.0	

OBSERVATIONS AT WASHINGTON—1841.

NOVEMBER 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 38	30.140	69.0	66.0	69.0	Maximum at 20 hours - 1 28 28
2 00 00	1 21 57	30.092	69.0	64.0	68.5	Minimum at 14 hours - 1 20 11
4 00 00	1 21 51	30.086	69.0	63.0	68.0	Mean - - - 1 24 19.5
6 00 00	1 22 03	30.036	69.5	65.0	67.5	
8 00 00	1 21 36	30.015	69.0	63.0	66.0	
10 00 00	1 22 08	29.998	69.5	62.0	65.0	
Noon	1 20 46	30.001	68.0	60.0	63.0	
14 00 00	1 20 11	30.016	67.5	59.0	62.0	
16 00 00	1 21 16	30.082	67.0	63.0	62.0	
18 00 00	1 26 06	30.070	66.0	68.0	69.0	
20 00 00	1 28 28	30.062	67.0	67.5	69.0	
22 00 00	1 26 51	30.062	67.5	66.0	70.0	

NOVEMBER 3, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 24 42	30.076	67.5	67.0	68.0	Maximum at 18 hours - 1 28 08
2 00 00	1 19 14	29.986	67.0	53.0	62.0	Minimum at 2 hours - 1 19 14
4 00 00	1 23 03	29.996	66.5	49.0	58.0	Mean - - - 1 23 41
6 00 00	1 23 14	30.002	66.0	45.0	54.0	
8 00 00	1 22 57	30.008	67.5	42.0	51 0	
10 00 00	1 22 27	30 008	67.5	39.5	48.0	
Noon	1 22 27	29.976	66.5	37.0	45.0	
14 00 00	1 20 37	29.962	62.5	39.5	45.0	
16 00 00	1 22 33	29.900	64.0	48.5	48.0	
18 00 00	1 28 08	29.830	65.0	59.5	55.0	
20 00 00	1 27 05	29.746	65.0	60.5	60.0	
22 00 00	1 25 00	29.710	66.0	60.0	60.0	

NOVEMBER 4, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 24 35	29.704	64.0	54.0	58.0	Maximum at 18 hours - 1 26 54
2 00 00	1 23 33	29.646	65.0	51.0	56.0	Minimum at 10 hours - 1 20 11
4 00 00	1 23 32	29.656	66.5	48.0	54.0	Mean - - - - 1 23 32.5
6 00 00	1 20 18	29.608	66.0	48.0	52.0	
8 00 00	1 20 12	29.662	66.5	48.0	52.0	
10 00 00	1 20 11	29.656	66.0	49.0	52.5	
Noon	1 23 10	29.672	67.0	48.5	50 0	
14 00 00	1 26 51	29.650	64.0	49.0	50.0	
16 00 00	1 26 53	29.724	61.0	49.5	50.0	
18 00 00	1 26 54	29.734	61.0	46.5	49.0	
20 00 00	1 26 30	29.744	61.0	41.0	47.0	
22 00 00	1 26 18	29.772	61.0	41.0	46.0	

NOVEMBER 5, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	*Inches.*	°	°	°
0 00 00	1 22 43	29.814	60.0	42.0	44.0
2 00 00	1 23 00	29.816	60.0	42.0	44.0
4 00 00	1 24 52	29.832	61.0	41.5	44.0
6 00 00	1 23 39	29.834	61.0	38.0	42.0
8 00 00	1 23 39	29.842	61.0	37.5	41.0
10 00 00	1 24 06	29.876	61.0	37.0	40.0
Noon	1 24 32	29.910	61.0	36.0	40.0
14 00 00	1 22 56	29.948	60.0	38.0	41.0
16 00 00	1 24 46	30.010	57.5	47.0	43.0
18 00 00	1 26 15	29.992	58.0	48.5	46.0
20 00 00	1 26 59	30.022	58.5	49.0	47.0
22 00 00	1 26 11	30.068	58.0	47.0	47.0

	° ′ ″
Maximum at 20 hours -	1 26 59
Minimum at 0 hours -	1 22 43
Mean - - -	1 24 51

NOVEMBER 6, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 23 18	30.098	58.0	45.0	46.0
2 00 00	1 19 27	30.124	58.0	43.5	45.0
4 00 00	1 19 53	30.126	57.5	41.0	44.0
6 00 00	1 19 31	30.129	57.5	40.0	41.0
8 00 00	1 19 16	30.124	58.0	39.0	41.0
10 00 00	1 21 58	30.136	57.0	38.0	40.0
Noon	1 31 41	30.232	56.5	38.0	39.0
14 00 00	1 27 05	30 238	54.0	38.0	39.0
16 00 00	1 21 48	30.252	55.0	44.5	42.0
18 00 00	1 24 12	30 260	56.0	47.0	46.0
20 00 00	1 26 56	30.254	57.5	49.0	49.5
22 00 00	1 23 46	30.280	57.0	48.5	50.0

Maximum at 12 hours -	1 31 41
Minimum at 8 hours -	1 19 16
Mean - - -	1 25 28.5

REMARKS.

At 10*h*. and 14*h*., observations uncertain, from excessive vibration.

NOVEMBER 7, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 21 39	30.266	57.0	44.0	46.0
2 00 00	1 18 51	30.352	57.0	39.5	44.0
4 00 00	1 18 17	30.368	57.5	37.5	42.0
6 00 00	1 24 28	30.362	57.0	32.5	39 0
8 00 00	1 24 24	30.376	57.0	32.0	37.0
10 00 00	1 27 23	30.382	53.5	32.5	36.0
Noon	1 26 48	30.382	52.5	34.0	36.0
14 00 00	1 21 15	30.386	52.0	36.0	36.0
16 00 00	1 21 53	30.380	54.0	42.0	38.0
18 00 00	1 27 28	30.336	56.0	48.5	44.0
20 00 00	1 28 45	30.336	57.0	49.5	48.0
22 00 00	1 23 22	30.276	57.0	49.0	49.0

Maximum at 20 hours -	1 28 45
Minimum at 4 hours -	1 18 17
Mean - - -	1 23 31

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
NOVEMBER 8, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 30	30.276	57.0	46.0	48.0	Maximum at 18 hours - 1 27 34
2 00 00	1 21 23	30.286	58.0	44.5	46.0	Minimum at 4 hours - 1 20 38
4 00 00	1 20 38	30.286	58.0	43.5	46.0	Mean - - - - 1 24 06
6 00 00	1 23 40	30.246	58.5	44.0	45.5	
8 00 00	1 22 21	30.248	58.5	44.0	45.0	
10 00 00	1 21 26	30.166	58.0	44.0	46.0	
Noon	1 25 33	30.166	57.5	43.0	44.0	
14 00 00	1 20 42	30.166	56.5	44.0	44.5	
16 00 00	1 24 37	30.159	56.5	51.0	47.5	
18 00 00	1 27 34	30.032	58 0	60.0	52.0	
20 00 00	1 26 47	30.014	59.0	66.0	58.0	
22 00 00	1 24 37	30.066	60.0	65.5	60.5	
NOVEMBER 9, 1841.						
0 00 00	1 22 22	30.114	59.0	64.0	59.5	Maximum at 20 hours - 1 28 00
2 00 00	1 22 34	30.132	60.0	60.0	58.0	Minimum at 14 hours - 1 19 31
4 00 00	1 22 01	30.148	60.0	56.0	58.0	Mean - - - - 1 23 45.5
6 00 00	1 21 51	30.190	61.0	57.5	58.0	
8 00 00	1 21 51	30.236	61.0	50.0	54.0	
10 00 00	1 21 46	30.286	62.0	43.5	50.0	
Noon	1 22 47	30.324	61.0	40.0	48.0	
14 00 00	1 19 31	30.380	60.0	42.0	46.0	
16 00 00	1 21 42	30.461	56.0	43.5	46.0	
18 00 00	1 26 55	30.441	60.0	47.0	46.0	
20 00 00	1 28 00	30.448	60.0	47.0	48.0	
22 00 00	1 27 22	30.448	60.0	45.0	48.0	
NOVEMBER 10, 1841.						
0 00 00	1 24 11	30.436	59.0	44.0	47.0	Max. at 18 and 20 hours 1 25 13
2 00 00	1 22 41	30.518	58.0	42.0	46.0	Minimum at 14 hours - 1 21 18
4 00 00	1 21 24	30.511	58.0	42.0	46.0	Mean - - - - 1 23 15.5
6 00 00	1 22 41	30.519	58.0	41.0	45.0	
8 00 00	1 23 21	30.528	59.0	41.0	44 0	
10 00 00	1 22 31	30.533	59.0	41.0	44.0	
Noon	1 21 32	30.538	59.0	41.0	43.0	
14 00 00	1 21 18	30.542	58.0	42.0	42.0	
16 00 00	1 23 41	30.562	56.5	46.0	44.0	
18 00 00	1 25 13	30.478	58.0	49.0	46.0	
20 00 00	1 25 13	30.446	58.0	48.0	46.0	
22 00 00	1 24 57	30.446	57.5	46.0	47.0	

NOVEMBER 11, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 57	30.446	57.5	43.5	46.0	Maximum at 18 hours - 1 28 40
2 00 00	1 22 34	30.481	57.0	43.0	46.0	Minimum at 12 hours - 1 18 32
4 00 00	1 22 33	30.484	57.0	43 0	46.0	Mean - - - 1 23 36
6 00 00	1 23 31	30.454	56.0	43.0	46.0	
8 00 00	1 23 05	30.450	56.0	42.5	46.0	
10 00 00	1 21 37	30.436	56 5	43.0	45.0	
Noon	1 18 32	30.436	56.0	42.5	44.0	
14 00 00	1 20 26	30.425	56.0	43.0	44.0	
16 00 00	1 22 39	30.400	58.0	44.0	46.0	
18 00 00	1 28 40	30.336	59.0	45.0	46.0	
20 00 00	1 26 06	30.286	60.0	47.5	46.0	
22 00 00		30.254	60.0	46.0	47.0	

NOVEMBER 12, 1841.

0 00 00	1 23 06	30.216	60.0	45.0	47.0	Maximum at 20 hours - 1 26 07
2 00 00	1 21 29	30.156	59.5	46.0	46.5	Minimum at 14 hours - 1 20 09
4 00 00	1 21 29	30.136	60.0	46.5	46.0	Mean - - - 1 23 08
6 00 00	1 21 13	30.036	60.0	47.0	46.0	
8 00 00	1 22 37	29.956	60.0	47.0	46.0	
10 00 00	1 22 18	29.940	60.0	47.5	47.0	
Noon	1 21 30	29.846	59.0	47.5	48.0	
14 00 00	1 20 09	29.846	59.0	48.0	46.5	
16 00 00	1 21 49	29.744	56.5	49.0	48.0	
18 00 00	1 24 46	29.694	60.0	53.5	52.0	
20 00 00	1 26 07	29.692	61.0	62.0	58.0	
22 00 00	1 25 30	29.694	61.0	59 0	58.0	

NOVEMBER 13, 1841.

0 00 00	1 20 29	29.712	61.0	58.0	58.0	Maximum at 18 hours - 1 25 05
2 00 00	1 22 21	29 686	59.0	52.5	54.0	Minimum at 0 hours - 1 20 29
4 00 00	1 22 36	29.716	59.5	51.0	53.0	Mean - - - 1 22 47
6 00 00	1 22 36	29.686	60.0	50.0	52.0	
8 00 00	1 23 38	29.686	60.0	50.0	51.0	
10 00 00	1 24 13	29.716	60.0	44.0	50.0	
Noon	1 21 56	29.748	60.0	42 0	46.0	REMARKS.
14 00 00	1 21 23	29 800	58.0	40.0	46.0	
16 00 00	1 21 23	29.814	56.0	46.0	46.0	At 0*h* , observation doubtful.
18 00 00	1 25 05	29.816	57.0	50.0	50 0	
20 00 00	1 23 51	29.792	58.0	55.0	54.0	
22 00 00	1 22 50	29.788	59.0	54.0	54.0	

OBSERVATIONS AT WASHINGTON—1841.

NOVEMBER 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.				
			Attached.	Air.	Magnetic observatory.		
h. m. s.	° ′ ″	*Inches.*	°	°	°		° ′ ″
0 00 00	1 21 06	29.822	58.0	48.0	46.0	Maximum at 20 hours	- 1 26 08
2 00 00	1 20 16	29.874	58.0	47.0	47.5	Minimum at 4 hours	- 1 17 21
4 00 00	1 17 21	29.874	58.5	42.0	45.0	Mean - -	- 1 21 44.5
6 00 00	1 19 51	29.873	58.5	38.0	42.0		
8 00 00	1 20 30	29.871	58.0	32.0	39.0		
10 00 00	1 20 16	29.831	58.0	32.0	38.0		
Noon	1 19 42	29.810	58.0	32.0	37.0		
14 00 00	1 19 41	29.796	57.0	32.0	36.0		
16 00 00	1 23 24	29.666	57.5	48.0	42.0		
18 00 00	1 26 07	29.556	58.0	54.0	48.0		
20 00 00	1 26 08	29.552	59.0	54.0	54.0		
22 00 00	1 23 23	29.446	60.0	60.0	56.0		

NOVEMBER 15, 1841.

0 00 00	1 23 23	29.446	59.0	59.5	54.5	Maximum at 0 hours	- 1 23 23
2 00 00	1 19 26	29.616	57.5	47.0	52.0	Minimum [illegible] hours	-
4 00 00	1 20 09	29.666	57.0	43.0	48.0	Mean - -	-
6 00 00	1 20 09	29.706	56.5	40.0	45.0		
8 00 00	1 21 02	29.686	57.0	39.0	43.0		
10 00 00	1 20 27	29.686	57.0	38.0	41.0		
Noon	1 19 18	29.694	56.0	38.0	40.0		
14 00 00							
16 00 00	1 21 17	29.682	54.0	40.0	42.0		
18 00 00	1 23 12	29.676	54.0	43.5	44.0		
20 00 00	1 21 39	29.640	54.0	42.0	43.0		
22 00 00	1 20 39	29.704	55.0	41.0	42.0		

NOVEMBER 16, 1841.

0 00 00	1 20 42	29.714	55.0	41.0	41.0	Maximum at 18 hours	- 1 21 51
2 00 00	1 18 48	29.756	54.0	40.5	40.0	Minimum at 14 hours	- 1 15 48
4 00 00	1 20 20	29.766	53.5	40.0	40.0	Mean - -	- 1 18 49.5
6 00 00	1 19 24	29.776	52.0	39.0	38.0		
8 00 00	1 18 11	29.776	52.0	39.0	39.0		
10 00 00	1 17 26	29.776	52.0	38.5	39.0		
Noon	1 17 21	29.782	52.0	38.0	39.0		
14 00 00	1 15 48	29.846	52.0	38.0	38.0		
16 00 00	1 18 47	29.980	50.0	41.0	39.0		
18 00 00	1 21 51	29.980	51.0	42.5	43.0		
20 00 00	1 20 00	29.980	52.0	43.5	44.0		
22 00 00	1 19 07	30.006	53.0	42.0	44.0		

NOVEMBER 17, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	*Inches.*	°	°	°
0 00 00	1 18 27	30.009	53.0	42.0	43.5
2 00 00	1 18 37	29.992	53.5	34.5	40.0
4 00 00	1 18 13	29.992	54.0	33.5	38.0
6 00 00	1 19 15	29.996	54.0	33.0	37.0
8 00 00	1 20 15	29.996	54.0	32.5	36.0
10 00 00	1 18 26	29.996	54.0	31.5	36.0
Noon	1 17 06	29.996	54.0	32.0	36.0
14 00 00	1 14 42	30.004	53.0	33.0	36.0
16 00 00	1 21 44	29.996	53.5	41.0	38.0
18 00 00	1 25 58	29.956	56.0	51.5	46.0
20 00 00	1 26 00	29.928	57.0	53.0	49.0
22 00 00	1 27 15	29.906	57.0	55.0	57.0

	° ′ ″
Maximum at 22 hours	1 27 15
Minimum at 14 hours	1 14 42
Mean	1 20 58.5

REMARKS.

On examining the instrument at 16*h*., found the clamping screw loose, and the instrument moved 9′ 55″ to the west. The absolute determination from 2*h*. of the 15th to 14*h*. of this day, inclusive, are therefore doubtful.

NOVEMBER 18, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 25 24	29.904	57.0	45.0	48.0
2 00 00	1 21 57	29.914	56.0	41.0	46.0
4 00 00	1 24 38	29.910	55.5	39.0	44.0
6 00 00	1 26 46	29.901	55.0	39.0	44.0
8 00 00	1 24 18	29.906	56.0	39.0	43.0
10 00 00	1 23 32	29.911	56.0	40.0	42.0
Noon	1 22 12	29.916	57.0	40.0	40.0
14 00 00	1 21 11	29.930	57.0	38.5	40.0
16 00 00	1 21 08	29.944	56.5	45.0	40.0
18 00 00	1 25 06	29.856	58.0	51.5	44.0
20 00 00	1 29 40	29.856	58.5	52.0	48.0
22 00 00	1 27 27	29.848	59.5	51.5	50.0

Maximum at 20 hours	1 29 40
Minimum at 16 hours	1 21 08
Mean	1 25 24

NOVEMBER 19, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 25 06	29.848	59.0	48.0	48.0
2 00 00	1 21 55	29.916	58.0	45.0	47.0
4 00 00	1 24 19	29.944	58.0	42.0	46.0
6 00 00	1 16 04	29.936	58.0	38.0	44.0
8 00 00	1 18 02	29.915	58.0	36.0	43.0
10 00 00	1 18 40	29.904	57.0	35.0	42.0
Noon	1 18 50	29.890	57.0	34.0	40.0
14 00 00	1 19 26	29.872	57.0	35.0	38.0
16 00 00	1 24 18	29.832	56.0	35.0	38.0
18 00 00	1 26 21	29.786	57.0	36.0	38.0
20 00 00	1 25 18	29.736	58.0	37.0	38.0
22 00 00	1 23 43	29.702	58.0	37.0	38.0

Maximum at 18 hours	1 26 21
Minimum at 6 hours	1 16 04
Mean	1 21 12.5

OBSERVATIONS AT WASHINGTON—1841.

NOVEMBER 20, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 41	29.668	57.0	36.0	37.0	Maximum at 8 hours - 1 31 13
2 00 00	1 22 11	29.668	56.0	37.0	38.0	Minimum at 12 hours - 1 20 11
4 00 00	1 20 33	29.738	57.0	37.0	39.0	Mean - - - - 1 25 42
6 00 00	1 20 33	29.738	57.5	38.0	37.0	
8 00 00	1 31 13	29.756	56.0	36.0	38.0	
10 00 00	1 28 41	29.784	55.0	36.0	38.0	
Noon	1 20 11	29.856	55.0	36.5	37.0	
14 00 00	1 25 08	29.856	55.0	38.0	37.0	
16 00 00	1 27 06	29.976	53.0	42.0	39.0	
18 00 00	1 26 58	29.976	55.0	45.0	42.0	
20 00 00	1 24 40	30.002	55.0	45.0	42.0	
22 00 00	1 21 57	30.036	54.5	43.0	42.0	

NOVEMBER 21, 1841.

0 00 00	1 12 41	30.092	55.0	48.0	42.0	Maximum at 22 hours - 1 25 38
2 00 00	1 21 55	30.086	54.0	39.0	42.0	Minimum at 0 hours - 1 12 41
4 00 00	1 20 08	30.086	55.5	37.0	41.0	Mean - - - - 1 19 09.5
6 00 00	1 21 23	30.122	56.0	36.0	40.0	
8 00 00	1 22 35	30.134	56.0	34.0	39.0	
10 00 00	1 21 21	30.148	57.0	33.5	38.0	
Noon	1 21 33	30.178	57.0	33.0	38.0	
14 00 00	1 21 28	30.230	56.0	34.5	37.0	
16 00 00	1 23 20	30.286	55.0	42.0	39.0	
18 00 00	1 25 02	30.254	57.5	48.5	42.0	
20 00 00	1 23 07	30.220	57.0	48.0	42.0	
22 00 00	1 25 38	30.216	56.0	46.0	44.0	

NOVEMBER 22, 1841.

0 00 00	1 21 34	30.212	56.0	44.0	44.0	Maximum at 20 hours - 1 26 14
2 00 00	1 22 18	30.168	55.0	42.0	44.0	Minimum at 14 hours - 1 21 16
4 00 00	1 22 18	30.168	56.5	44.0	44.0	Mean - - - 1 23 45
6 00 00	1 23 16	30.140	57.5	44.5	44.0	
8 00 00	1 23 46	30.10[illegible]	57.0	44.0	44.0	
10 00 00	1 23 03	30.071	57.0	44.0	44.0	
Noon	1 21 43	30.014	57.0	44.5	44.0	
14 00 00	1 21 16	29.986	57.0	44.0	45.0	
16 00 00	1 25 43	29.976	56.0	46.0	44.0	
18 00 00	1 26 13	29.876	59.5	48.0	46.0	
20 00 00	1 26 14	29.756	60.0	49.5	46.0	
22 00 00	1 24 03	29.760	60.0	53.5	52.0	

NOVEMBER 23, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 41	29.720	61.0	54.5	52.0	Maximum at 18 hours - 1 27 01
2 00 00	1 21 56	29.716	60.0	55.0	54.0	Minimum at 6 hours - 1 21 21
4 00 00	1 22 18	29.714	61.0	55.0	55.0	Mean - - - 1 24 11
6 00 00	1 21 21	29.772	62.0	55.0	55.0	
8 00 00	1 21 22	29.800	62.0	55.0	55.0	
10 00 00	1 22 19	29.836	61.0	50.0	52.0	
Noon	1 22 51	29.898	61.0	48.0	49.0	
14 00 00	1 21 30	29.936	61.0	49.0	48.0	
16 00 00	1 23 17	29.996	62.0	52.0	50.0	
18 00 00	1 27 01	29.976	62.5	54.0	54.0	
20 00 00	1 25 52	29.954	62.5	56.5	57.0	
22 00 00	1 24 57	29.968	62.5	55.0	57.0	

NOVEMBER 24, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 51	29.984	62.5	50.5	56.0	Maximum at 18 hours - 1 26 09
2 00 00	1 20 16	29.984	61.0	47.0	52.0	Minimum at 4 hours - 1 20 13
4 00 00	1 20 13	29.966	62.0	43.5	49.0	Mean - - - 1 23 11
6 00 00	1 21 19	29.966	62.0	38.0	45.0	
8 00 00	1 21 23	29.982	62.5	43.0	43.0	
10 00 00	1 23 31	29.982	62.0	37 5	42.0	REMARKS.
Noon	1 21 43	30.048	61.0	34.0	40.0	
14 00 00	1 25 36	30.061	60.0	34.5	40 0	Temperature of air probably noted 5° too high at 8*h*.
16 00 00	1 24 03	30.168	59.0	46.5	42.0	
18 00 00	1 26 09	30.088	60.0	50.0	47.0	
20 00 00	1 24 43	30.130	61.0	52.0	51.0	
22 00 00	1 24 43	30.130	60.0	50.0	51.5	

NOVEMBER 25, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 16	30.136	60.5	48.0	49.0	Maximum at 20 hours - 1 24 40
2 00 00	1 17 43	30.176	60 0	40.5	46.0	Minimum at 2 hours - 1 17 43
4 00 00	1 22 06	30.152	62.0	40.0	44.5	Mean - - - 1 21 11.5
6 00 00	1 23 11	30.152	62.0	40.5	44.0	
8 00 00	1 20 57	30.146	62.0	41.0	44.0	
10 00 00	1 20 25	30.162	61 5	40.0	43.0	
Noon	1 20 35	30.136	61.5	39.5	42.5	
14 00 00	1 20 35	30.120	59.0	39.0	42.0	
16 00 00	1 22 28	30.108	58.5	39.0	42.0	
18 00 00	1 24 39	29.976	60.0	41.0	42.0	
20 00 00	1 24 40	29.912	60.0	42.0	42.0	
22 00 00	1 22 53	29.880	60.0	42.0	42.0	

OBSERVATIONS AT WASHINGTON—1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
NOVEMBER 26, 1841.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 41	29.836	60.0	41.0	42.0	Maximum at 20 hours - 1 23 56
2 00 00	1 22 03	29.786	60.0	43.0	43.0	Minimum at 14 hours - 1 21 21
4 00 00	1 22 04	29.762	61.0	43.0	43.0	Mean - - - 1 22 38.5
6 00 00	1 22 26	29.710	60.5	43.0	43.0	
8 00 00	1 22 01	29.710	60.5	43.5	43.0	
10 00 00	1 21 47	29.716	60.5	43.0	43.0	
Noon	1 21 35	29.722	60.5	43.5	43.0	
14 00 00	1 21 21	29.712	60.5	43.0	43.0	
16 00 00	1 22 06	29.674	59.0	46.0	44.0	
18 00 00	1 22 06	29.682	61.0	48.0	45.0	
20 00 00	1 23 56	29.661	62.5	50.5	48.0	
22 00 00	1 22 10	29.661	62.5	50.0	50.0	
NOVEMBER 27, 1841.						
0 00 00	1 22 10	29.661	62.5	48.0	52.0	Maximum at 18 hours - 1 25 06
2 00 00	1 21 12	29.790	61.0	48.0	52.0	Minimum at 14 hours - 1 21 01
4 00 00	1 23 03	29.866	61.0	52.0	56.0	Mean - - - 1 23 03.5
6 00 00	1 22 56	29.926	58.0	45.0	58.0	
8 00 00	1 22 56	29.986	57.0	39.0	56.0	
10 00 00	1 22 26	30.034	56.0	34.0	54.0	
Noon	1 22 08	30.086	53.0	34 0	55.0	
14 00 00	1 21 01	30.136	52.0	35.0	54.0	
16 00 00	1 21 05	30.202	53.0	35.0	49.0	
18 00 00	1 25 06	30.198	53.5	36.0	50.0	
20 00 00	1 24 48	30.238	55.0	36.0	50.0	
22 00 00	1 23 11	30.290	60.0	35.0	51.0	
NOVEMBER 28, 1841.						
0 00 00	1 21 42	30.332	53.5	31.5	43.0	Maximum at 18 hours - 1 24 33
2 00 00	1 21 42	30.346	53.0	29.0	38.0	Min. at 8 and 10 hours - 1 20 18
4 00 00	1 21 42	30.346	53.0	27.0	34.0	Mean - - - 1 22 25.5
6 00 00	1 21 18	30.351	53.5	25.5	32.0	
8 00 00	1 20 18	30.351	53.5	24.5	30.0	
10 00 00	1 20 18	30.351	53.5	23.0	28.0	
Noon	1 21 21	30.361	51.0	23.0	28.0	
14 00 00	1 20 33	30.361	50.0	24.0	28.0	
16 00 00	1 22 36	30.468	49.0	30.0	29.0	
18 00 00	1 24 33	30.414	51.0	32.0	31.0	
20 00 00	1 23 59	30.344	51.0	32.0	31.5	
22 00 00	1 23 41	30.306	51.0	31.0	31.0	

NOVEMBER 29, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	*Inches.*	°	°	°
0 00 00	1 23 21	30.306	51.0	31.0	31.0
2 00 00	1 22 51	30.262	50.0	27.5	31.5
4 00 00	1 22 19	30.212	48.5	27 0	30.0
6 00 00	1 22 15	30.172	46.5	26.5	30.0
8 00 00	1 22 51	30.136	45.5	26.5	30.0
10 00 00	1 22 15	30.124	44.5	26.5	29.0
Noon	1 22 36	30.142	43.5	26.0	29.5
14 00 00	1 21 51	30 136	43.0	26.5	28.0
16 00 00	1 22 36	30.156	42.0	30.0	30.0
18 00 00	1 24 29	30.132	46.0	32.0	32.0
20 00 00	1 24 00	30.136	48.0	32.0	34.0
22 00 00	1 23 53	30.170	49.0	31.5	34.0

		°	′	″
Maximum at 18 hours	-	1	24	29
Minimum at 14 hours	-	1	21	51
Mean	-	1	23	10

NOVEMBER 30, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 22 56	30.188	47.0	28.0	32.0
2 00 00	1 22 28	30.256	47.0	27.5	32.0
4 00 00	1 22 42	30.286	47.5	29.0	31.0
6 00 00	1 22 47	30.288	45.0	28.5	31 0
8 00 00	1 23 23	30.314	44.0	27.5	31.0
10 00 00	1 22 46	30.362	43.0	26.0	31.0
Noon	1 22 12	30 390	42.0	23.0	30 0
14 00 00	1 21 33	30.420	41.5	19.5	27.0
16 00 00	1 22 48	30 451	55.0	31.0	30.0
18 00 00	1 24 51	30.422	46.0	32.5	32.0
20 00 00	1 23 51	30.391	47.0	37.0	34.0
22 00 00	1 23 51	30.391	48.0	33.0	34.0

		°	′	″
Maximum at 18 hours	-	1	24	51
Minimum at 14 hours	-	1	21	33
Mean	-	1	23	12

REMARKS.

Attached thermometer probably noted 10° too high at 16*h*.

DECEMBER 1, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 22 47	30.371	48.0	28.0	33.0
2 00 00	1 22 28	30.420	47.0	20.0	30.0
4 00 00	1 22 05	30.426	43.0	16.0	26.0
6 00 00	1 22 52	30.426	43.0	13.0	23.0
8 00 00	1 22 47	30.416	41.0	14.0	25.0
10 00 00	1 22 28	30.426	40.0	14.0	24.0
Noon	1 22 02	30 443	39.0	14.0	23.0
14 00 00	1 21 12	30.472	39.0	14.0	23.0
16 00 00	1 21 34	30.472	41.0	24.5	25.0
18 00 00	1 24 28	30.464	44.0	31.5	31.0
20 00 00	1 27 06	30.404	44.0	38.5	34.0
22 00 00	1 24 16	30.392	49.0	38.0	36.0

		°	′	″
Maximum at 20 hours	-	1	27	06
Minimum at 14 hours	-	1	21	12
Mean	-	1	24	09

DECEMBER 2, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 17	30.392	44.0	33.0	34.0	Maximum at 18 hours - 1 26 35
2 00 00	1 21 20	30.361	43.0	31.0	31.5	Minimum at 6 hours - 1 20 18
4 00 00	1 21 20	30.361	45.0	30.0	32.0	Mean - - - 1 23 26.5
6 00 00	1 20 18	30.347	45.0	28.0	30.0	
8 00 00	1 21 50	30.345	44.0	25.0	30.0	
10 00 00	1 21 33	30.349	45.0	20.0	26.0	
Noon	1 22 03	30.349	45.0	19.0	22.0	
14 00 00	1 20 24	30.363	44.0	20.0	26.0	
16 00 00	1 23 11	30.390	42.5	29.5	29.0	
18 00 00	1 26 35	30.340	46.0	39.0	32.0	
20 00 00	1 25 16	30.312	44.0	41.5	35.0	
22 00 00	1 23 28	30.312	44.0	39.0	35.0	

DECEMBER 3, 1841.

0 00 00	1 22 41	30.302	43.5	35.0	36.0	Maximum at 18 hours - 1 28 31
2 00 00	1 23 38	30.280	44.0	35.0	34.0	Minimum at 4 hours - 1 20 33
4 00 00	1 20 33	30.280	43.0	35.0	34.0	Mean - - - 1 24 32
6 00 00	1 21 43	30.260	43.0	35.0	34.0	
8 00 00	1 23 14	30.226	43.0	34.0	35.0	
10 00 00	1 22 02	30.162	43.0	34.0	35.0	
Noon	1 21 03	30.070	43.0	35.0	35.0	
14 00 00	1 26 04	29.984	43.0	38.0	36.0	
16 00 00	1 27 52	29.886	46.0	45.0	40.0	
18 00 00	1 28 31	29.720	46.0	47.0	42.0	
20 00 00	1 26 58	29.616	47.0	50.0	44.0	
22 00 00	1 23 11	29.486	56.0	54.0	46.0	

DECEMBER 4, 1841.

0 00 00	1 18 13	29.498	49.0	50.0	48.0	Maximum at 8 hours - 1 28 57
2 00 00	1 20 25	29.528	48.0	50.0	49.0	Minimum at 0 hours - 1 18 13
4 00 00	1 24 56	29.538	50.0	47.0	48.0	Mean - - - 1 23 35
6 00 00	1 21 22	29.550	51.0	45.0	47.0	
8 00 00	1 28 57	29.504	50.0	44.5	46.0	
10 00 00	1 22 41	29.442	50.0	44.0	46.0	
Noon	1 23 22	29.460	49.0	44.0	44.5	
14 00 00	1 23 05	29.486	49.0	44.5	45.0	
16 00 00	1 23 21	29.486	51.0	49.5	46.0	
18 00 00	1 24 06	29.461	52.5	52.0	50.0	
20 00 00	1 21 33	29.381	52.0	53.5	50.0	
22 00 00	1 23 24	29.451	51.0	50.0	51.0	

DECEMBER 5, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 19 08	29.451	51.5	45.5	48.0	Maximum at 18 hours - 1 25 43
2 00 00	1 19 59	29.522	52.0	43.0	48.0	Minimum at 0 hours - 1 19 08
4 00 00	1 22 21	29.556	53.0	41.0	44.0	Mean - - - 1 22 25.5
6 00 00	1 22 48	29.558	50.0	40.0	44.0	
8 00 00	1 24 12	29.536	49.0	39.0	42.0	
10 00 00	1 22 20	29.516	47.0	38.0	40.0	
Noon.	1 22 51	29.528	47.0	36.0	41.0	
14 00 00	1 21 03	29.546	46.0	36.0	38.0	
16 00 00	1 22 36	29.576	48.0	37.0	38.0	
18 00 00	1 25 43	29.576	47.0	38.0	38.0	
20 00 00	1 25 41	29.576	46.0	38.0	39.0	
22 00 00	1 23 44	29.586	46.0	37.0	38.0	

DECEMBER 6, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 01	29.636	45.0	35.0	36.0	Maximum at 18 hours - 1 25 08
2 00 00	1 22 06	29.671	44.0	35.0	34.0	Minimum at 14 hours - 1 20 13
4 00 00	1 21 11	29.686	44.5	34.0	34.0	Mean - - - 1 22 40.5
6 00 00	1 22 05	29.686	43.0	33.0	33.0	
8 00 00	1 22 05	29.691	44.0	33.0	33.0	
10 00 00	1 21 38	29.691	43.0	33.0	33.0	
Noon	1 21 38	29.661	42.0	31.0	31.0	
14 00 00	1 20 13	29.761	43.0	33.0	32.0	
16 00 00	1 23 57	29.824	43.0	36.5	34.5	
18 00 00	1 25 08	29.810	45.0	39.5	37.5	
20 00 00	1 24 54	29.810	44.0	38.0	38.0	
22 00 00	1 24 33	29.838	43.5	38.5	38.0	

DECEMBER 7, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 24	29.862	43.0	36.0	38.0	Maximum at 18 hours - 1 26 01
2 00 00	1 16 10	29.880	44.0	35.0	37.0	Minimum at 2 hours - 1 16 10
4 00 00	1 22 57	29.884	43.0	35.0	36.0	Mean - - - 1 21 05.5
6 00 00	1 22 22	29.886	43.0	35.0	36.0	
8 00 00	1 21 22	29.886	43.0	34.5	35.5	
10 00 00	1 21 45	29.922	43.0	34.0	35.0	
Noon	1 23 44	29.956	43.0	33.0	35.0	
14 00 00	1 21 34	30.016	43.0	35.0	35.0	
16 00 00	1 21 31	30.106	43.0	37.0	38.0	
18 00 00	1 26 01	30.106	44.0	39.0	38.0	
20 00 00	1 25 42	30.132	47.5	40.0	42.0	
22 00 00	1 23 28	30.152	49.5	39.5	43.0	

OBSERVATIONS AT WASHINGTON—1841.

DECEMBER 8, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 23	30.144	47.5	35.5	41.0	Maximum at 20 hours - 1 29 53
2 00 00	1 22 06	30.220	48.5	31.0	38.0	Minimum at 12 hours - 1 19 23
4 00 00	1 22 31	30.226	48.0	28.0	36.0	Mean - - - 1 24 38
6 00 00	1 22 09	30.248	47.0	27.0	34.0	
8 00 00	1 21 26	30.251	46.0	26.0	32.0	
10 00 00	1 20 39	30.260	45.0	24.0	30.0	
Noon	1 19 23	30.266	44.0	22.5	28.0	
14 00 00	1 22 09	30.276	43.5	23.0	28.0	
16 00 00	1 29 18	30.286	44.0	29.0	30.0	
18 00 00	1 29 26	30.182	45.5	39.0	34.0	
20 00 00	1 29 53	30.151	46.0	44.0	40.0	
22 00 00	1 25 44	30.166	47.0	42.0	40.0	

DECEMBER 9, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 57	30.168	49.0	39.0	39.0	Maximum at 18 hours - 1 26 20
2 00 00	1 20 31	30.140	46.5	37.0	40.0	Minimum at 2 hours - 1 20 31
4 00 00	1 22 25	30.118	49.5	36.0	39.0	Mean - - - 1 23 25.5
6 00 00	1 22 56	30.076	48.0	39.0	40.0	
8 00 00	1 22 47	30.030	47.5	42.0	42.0	
10 00 00	1 22 57	30.000	49.0	42.0	42.0	
Noon	1 22 15	29.988	51.0	41.5	42.0	
14 00 00	1 21 32	30.000	51.0	42.0	42.0	
16 00 00	1 22 56	29.996	52.0	48.0	46.0	
18 00 00	1 26 20	29.936	53 0	54.0	48 0	
20 00 00	1 25 43	29.936	53.0	58.5	52.0	
22 00 00	1 24 07	29.936	55.0	54.5	54.0	

DECEMBER 10, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 23 20	29.920	54.0	48.0	52.0	Maximum at 14 hours - 1 27 34
2 00 00	1 21 15	29.965	55.0	46.5	49.0	Minimum at 2 hours - 1 21 15
4 00 00	1 22 06	29.965	55.0	43.5	48.0	Mean - - - 1 24 24.5
6 00 00	1 22 06	29.965	55.0	41.0	46.0	
8 00 00	1 24 07	29.971	54.0	41.0	44.0	
10 00 00	1 23 27	29.971	53.0	41.0	44.0	
Noon	1 21 44	29.881	53.0	41.0	43.0	
14 00 00	1 27 34	29.881	53.0	42.0	43.0	
16 00 00	1 21 55	29.860	58.5	49.0	45.0	
18 00 00	1 25 21	29.752	56.5	52.0	48.0	
20 00 00	1 25 31	29.670	58.0	57.5	51.5	
22 00 00	1 25 57	29.614	59.0	56.5	53.0	

DECEMBER 11, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 15	29.588	59.0	54.5	53.0	Maximum at 20 hours - 1 24 45
2 00 00	1 22 41	29.544	58.5	54.0	54.5	Minimum at 8 hours - 1 21 36
4 00 00	1 22 31	29.478	59.0	53.5	54.0	Mean - - - 1 23 10.5
6 00 00	1 23 02	29.436	60.0	52.5	53.0	
8 00 00	1 21 36	29.436	60.0	50.0	51.0	
10 00 00	1 22 51	29.432	59.0	46.0	50.0	
Noon	1 22 44	29.440	56.0	44.5	48.0	
14 00 00	1 22 04	29.472	55.0	48.0	48.0	
16 00 00	1 21 48	29.536	56.0	50.0	49.0	
18 00 00	1 24 35	29.560	56.5	49.5	49.0	
20 00 00	1 24 45	29.576	57.0	51.0	50.0	
22 00 00	1 23 16	29.636	62.5	49.0	50.0	

DECEMBER 12, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 49	29.708	57.5	47.0	48.0	Maximum at 20 hours - 1 23 18
2 00 00	1 22 04	29.772	57.5	47.0	48.0	Minimum at 16 hours - 1 21 49
4 00 00	1 23 08	29.816	58.0	47.0	48.0	Mean - - - - 1 22 33.5
6 00 00	1 23 10	29.840	57.0	45.0	46.5	
8 00 00	1 22 56	29.890	56.0	44.0	45.0	
10 00 00	1 22 31	29.932	54.0	42.0	42.0	
Noon	1 22 27	30.002	51.0	41.0	42.0	
14 00 00	1 22 20	30.032	51.0	41.0	42.0	
16 00 00	1 21 49	30.061	53.0	45.0	43.0	
18 00 00	1 23 17	30.066	53.5	48.0	47.0	
20 00 00	1 23 18	30.066	55.0	50.0	50.0	
22 00 00	1 22 13	30.071	63.0	49.0	50.0	

DECEMBER 13, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 21 32	30.082	56.0	45.0	48.0	Maximum at 20 hours - 1 26 21
2 00 00						Minimum at hours -
4 00 00						Mean - - - -
6 00 00						
8 00 00						
10 00 00						
Noon						
14 00 00						
16 00 00	1 22 21	30.136	52.0	36.0	35.0	
18 00 00	1 25 28	30.080	54.0	45.5	40.0	
20 00 00	1 26 21	30.006	54.0	48.5	42.0	
22 00 00	1 23 33	29.986	55.0	46.5	44.0	

OBSERVATIONS AT WASHINGTON—1841.

DECEMBER 14, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	*Inches.*	°	°	°
0 00 00	1 22 48	29.936	56.0	45.5	44.0
2 00 00	1 21 18	29.940	56.0	44.0	43.0
4 00 00	1 21 19	29.886	55.0	45.0	44.0
6 00 00	1 21 31	29.782	56.0	47.0	44.0
8 00 00	1 21 38	29.782	54.0	47.0	45.0
10 00 00	1 21 38	29.754	54.0	47.0	45.0
Noon	1 21 46	29.754	53.0	42.0	44.0
14 00 00	1 19 23	29.782	53.0	40.0	42.0
16 00 00	1 21 28	29.862	54.0	43.0	43.0
18 00 00	1 25 40	29.838	56.0	51.0	48.0
20 00 00	1 29 10	29.846	56.5	52.0	55.0
22 00 00	1 26 24	29.890	62.0	53.0	52.0

	° ′ ″
Maximum at 20 hours -	1 29 10
Minimum at 14 hours -	1 19 23
Mean - - -	1 24 16.5

REMARKS.

From 23*h*. 27*m*. to midnight, a diffused auroral light, extending from N. N. E. to N. W.

DECEMBER 15, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 34 46	29.918	57.0	49.0	51.0
2 00 00	1 18 41	29.916	56.0	44.5	48.0
4 00 00	1 22 10	29.916	56.0	42.5	46.0
6 00 00	1 22 33	29.916	56.0	41.5	44.0
8 00 00	1 22 55	29.918	54 0	40.5	44 0
10 00 00	1 23 31	29.976	53.0	40.0	44.0
Noon	1 23 01	30.008	53.0	41.0	43.0
14 00 00	1 20 58	30.036	54.0	43.0	44.0
16 00 00	1 20 26	30.096	54.0	48.5	45.0
18 00 00	1 23 11	30.061	56.0	52.0	47.0
20 00 00	1 23 33	30.036	56.5	53.0	50.0
22 00 00	1 23 38	30.036	56.0	49.5	50.0

Maximum at 0 hours -	1 34 46
Minimum at 16 hours -	1 20 26
Mean - - -	1 27 36

REMARKS.

Altitude of auroral light, 10°. Disappeared at 0*h*. 17*m*.

DECEMBER 16, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 21 23	29.975	56.0	46.0	48.0
2 00 00	1 22 31	30.006	56.0	45.0	48.0
4 00 00	1 22 32	29.986	56.0	44.0	47.0
6 00 00	1 22 07	29.924	54.0	43.0	46.0
8 00 00	1 21 21	29.861	54.0	43.0	46.0
10 00 00	1 20 46	29.830	54.0	43.0	46.0
Noon	1 19 36	29.801	53.0	43.0	45.0
14 00 00	1 18 09	29.764	53.0	43.0	45.0
16 00 00	1 23 13	29.736	53.0	46.0	46.0
18 00 00	1 26 20	29.630	53.5	46.5	46.0
20 00 00	1 26 11	29.536	54.0	47.0	46.0
22 00 00	1 21 38	29.482	54.0	47.5	47.0

Maximum at 18 hours -	1 26 20
Minimum at 14 hours -	1 18 09
Mean - - -	1 22 14.5

DECEMBER 17, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 01	29.436	56.0	46.0	47.0	Maximum at 20 hours - 1 26 22
2 00 00	1 21 21	29.436	55.5	45.0	46.0	Minimum at 12 hours - 1 20 06
4 00 00	1 21 13	29.346	56.0	45.5	46.0	Mean - - - 1 23 14
6 00 00	1 21 13	29.336	55.0	43.5	44.0	
8 00 00	1 22 48	29.257	54.0	41.0	43.0	
10 00 00	1 22 48	29.236	53.0	41.0	43.0	
Noon	1 20 06	29.236	53.0	39.0	40.0	
14 00 00	1 21 45	29.281	52.0	38.0	40.0	
16 00 00	1 20 28	29.384	52.0	34.0	39.0	
18 00 00	1 25 17	29.390	49.5	31.0	36.0	
20 00 00	1 26 22	29.390	48.0	30.5	35.0	
22 00 00	1 24 40	29.472	47.0	29.0	33.0	

DECEMBER 18, 1841.

0 00 00	1 16 16	29.532	45.0	25.0	31.0	Maximum at 20 hours - 1 24 06
2 00 00	1 17 51	29 554	45.0	24.0	31.0	Minimum at 0 hours - 1 16 16
4 00 00	1 20 06	29 580	45.0	23.0	30.0	Mean - - - 1 20-11
6 00 00	1 21 30	29.580	45.0	22.0	30.0	
8 00 00	1 22 41	29 598	42.0	21.0	29.0	
10 00 00	1 23 42	29.604	39.0	22.0	28.0	
Noon	1 24 00	29.688	39.0	24.0	28.0	
14 00 00	1 22 13	29.676	37.0	23.5	28.0	
16 00 00	1 20 06	29.736	38.0	28.0	28.0	
18 00 00	1 23 14	29.763	38.0	30.0	32.0	
20 00 00	1 24 06	29.764	37.0	31.0	32.0	
22 00 00	1 24 05	29.872	45.0	31.5	32.0	

DECEMBER 19, 1841.

0 00 00	1 21 31	29.936	42.0	28.0	30.0	Maximum at 20 hours - 1 27 51
2 00 00	1 21 16	30 036	41.0	25.0	29.0	Minimum at 2 hours - 1 21.16
4 00 00	1 21 51	30.078	40.0	24.5	28.0	Mean - - - 1 24 33.5
6 00 00	1 21 40	30.102	37.5	24.0	28.0	
8 00 00	1 21 51	30.120	37.0	23.0	26.0	
10 00 00	1 22 01	30.151	37.0	21.0	26.0	
Noon	1 22 35	30.171	36.0	19.5	26.0	
14 00 00	1 23 12	30.192	36.0	19.5	26.5	
16 00 00	1 23 14	30.210	37.0	26.5	28.0	
18 00 00	1 26 38	30.158	37.0	35.0	32.0	
20 00 00	1 27 51	30.114	38.0	38.0	34.0	
22 00 00	1 24 10	30.128	38.0	36.0	34.0	

DECEMBER 20, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 21	30.128	38.0	32.0	34.0	Maximum at 18 hours - 1 26 03
2 00 00	1 22 59	30.186	42.0	29.5	32.0	Minimum 4 at hours - 1 19 13
4 00 00	1 19 13	30.072	40.0	27.0	30.0	Mean - - - 1 22 36
6 00 00	1 21 21	30.051	38.0	26.0	28.0	
8 00 00	1 21 21	30.052	38.0	26.0	28.0	
10 00 00	1 21 43	30.052	36.0	22.0	26.0	
Noon	1 23 08	30.045	36.0	21.0	26.0	
14 00 00	1 23 06	30.045	37.0	21.0	28.0	
16 00 00	1 20 38	30.094	39.0	30.0	29.0	
18 00 00	1 26 03	30.036	41.0	31.0	33.0	
20 00 00	1 25 40	30.032	44.0	41.0	38.0	
22 00 00	1 23 25	29.994	44.0	40.0	38.0	

DECEMBER 21, 1841.

0 00 00	1 21 29	29.992	44.0	40.0	38.0	Maximum at 12 hours - 1 24 13
2 00 00	1 20 58	29.986	42.0	36.0	37.0	Minimum at 16 hours - 1 20 48
4 00 00	1 21 23	29.952	42.0	35.0	36.0	Mean - - - 1 22 30.5
6 00 00	1 22 11	29.936	42.0	34.0	36.0	
8 00 00	1 22 41	29.936	42.0	33.0	35.0	
10 00 00	1 23 57	29.936	41.0	33.0	35.0	
Noon	1 24 13	29.944	41.0	32.5	34.0	
14 00 00	1 21 01	29.986	41.0	33.0	35.0	
16 00 00	1 20 48	30.052	42.0	35.5	32.0	
18 00 00	1 23 28	30.062	42.0	31.0	32.0	
20 00 00	1 23 48	30.146	42.0	34.0	32.0	
22 00 00	1 22 11	30.236	43.0	31.5	34.0	

DECEMBER 22, 1841.

0 00 00	1 21 13	30.271	42.0	30.0	32.0	Maximum at 20 hours - 1 28 21
2 00 00	1 21 24	30.414	44.0	30.0	33.0	Minimum at 16 hours - 1 19 31
4 00 00	1 21 57	30.466	42.0	29.0	32.0	Mean - - - 1 23 56
6 00 00	1 22 35	30.496	41.0	28.0	32.0	
8 00 00	1 22 32	30.511	40.0	26.5	31.0	
10 00 00	1 22 16	30.542	39.0	22.0	30.0	
Noon	1 21 27	30.593	39.0	21.0	28.0	
14 00 00	1 20 55	30.660	39.0	20.5	27.0	
16 00 00	1 19 31	30.696	37.0	22.5	28.0	
18 00 00	1 24 08	30.686	41.0	24.0	29.0	
20 00 00	1 28 21	30.678	40.0	23.0	29.0	
22 00 00	1 24 51	30.678	40.0	24.0	28.0	

DECEMBER 23, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 36	30.668	41.0	23.0	27.0	Maximum at 8 hours - 1 27 33
2 00 00	1 22 26	30.654	41.0	22.0	32.0	Minimum at 10 hours - 1 20 11
4 00 00	1 20 51	30.686	42.0	25.0	34.0	Mean - - - - 1 23 52
6 00 00	1 21 03	30.636	42.0	25.0	34.0	
8 00 00	1 27 33	30.545	42.0	25.0	38.0	
10 00 00	1 20 11	30.536	42.0	25.0	38.0	
Noon	1 21 28	30.415	42.0	25.0	40.0	
14 00 00	1 21 16	30.436	41.0	27.0	40.0	
16 00 00	1 22 08	30.392	40.5	30.2	41.0	
18 00 00	1 24 19	30.284	40.5	32.5	42.0	
20 00 00	1 26 07	30.184	40.0	33.5	44.0	
22 00 00	1 24 28	30.060	40.0	35.5	45.0	

DECEMBER 24, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 46	29.962	40.0	46.0	41.0	Maximum at 22 hours - 1 24 51
2 00 00	1 21 01	29.866	47.0	53.5	48.0	Minimum at 2 hours - 1 21 01
4 00 00	1 21 38	29.816	46.0	43.5	47.0	Mean - - - - 1 23 56
6 00 00	1 23 08	29.796	44.0	42.0	44.0	
8 00 00	1 24 37	29.782	44.0	41.0	44.0	
10 00 00	1 24 07	29.826	44.0	40.0	44.0	
Noon	1 23 59	29.866	43.0	38.5	42.0	
14 00 00	1 23 09	29.932	42.0	37.0	40.0	
16 00 00	1 21 43	30.036	42.0	37.0	38.0	
18 00 00	1 24 43	30.071	44.0	37.0	38.0	
20 00 00	1 24 43	30.071	44.0	36.5	40.0	
22 00 00	1 24 51	30.136	43.0	38.0	38.0	

DECEMBER 25, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 24 51	30.136	43.0	38.0	38.0	Maximum at 20 hours - 1 26 21
2 00 00	1 21 45	30.182	43.5	35.0	31.0	Minimum at 6 hours - 1 20 43
4 00 00	1 21 58	30.186	43.0	34.0	31.0	Mean - - - - 1 23 32
6 00 00	1 20 43	30.186	41.0	34.0	30.0	
8 00 00	1 21 22	30.188	40.0	31.0	33.0	
10 00 00	1 21 36	30.188	40.0	30.0	32.0	
Noon	1 22 20	30.196	39.0	29.0	32.0	
14 00 00	1 20 56	30.222	39.0	28.5	31.0	
16 00 00	1 21 23	30.220	42.0	31.0	32.0	
18 00 00	1 25 36	30.204	40.5	32.5	33.0	
20 00 00	1 26 21	30.166	40.5	32.0	33.0	
22 00 00	1 22 42	30.168	40.5	31.5	34.0	

OBSERVATIONS AT WASHINGTON—1841.

DECEMBER 26, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 22 51	30.172	40.0	30 5	33.0	Maximum at 22 hours - 1 24 49
2 00 00	1 21 16	30.170	39.0	29.0	32.0	Minimum at 16 hours - 1 20 41
4 00 00	1 21 16	30.172	39.0	29.0	32.0	Mean - - - - 1 22 45
6 00 00	1 21 06	30.172	39.0	29.0	32.0	
8 00 00	1 22 08	30.182	39.0	29.0	32.0	
10 00 00	1 21 48	30.182	39.0	29.0	32.0	
Noon	1 21 48	30.181	39.0	29.0	32.0	
14 00 00	1 21 11	30.236	38.0	22.0	26.0	
16 00 00	1 20 41	30.312	38.0	25.0	28.0	
18 00 00	1 24 16	30.316	39.0	27.0	30.0	
20 00 00	1 24 28	30.314	39.0	28.0	33.0	
22 00 00	1 24 49	30.286	39.0	29.0	34.0	

DECEMBER 27, 1841.

0 00 00	1 23 41	30.286	39.5	26.0	32.0	Maximum at 20 hours - 1 24 37
2 00 00	1 15 53	30.286	38.0	23.0	29.0	Minimum at 2 hours - 1 15 53
4 00 00	1 21 41	30.284	38.5	21.0	27.0	Mean - - - - 1 20 15
6 00 00	1 24 02	30.278	38.0	18.0	26.0	
8 00 00	1 24 17	30.260	38.0	16.0	24.0	
10 00 00	1 22 14	30.260	37.5	15.0	24.0	
Noon	1 21 41	30.260	37.0	16.5	24.0	
14 00 00	1 21 15	30.288	36.0	20.0	24.0	
16 00 00	1 21 15	30.326	38.0	28.0	26.0	
18 00 00	1 24 24	30.240	38.0	31.0	30.0	
20 00 00	1 24 37	30.224	38.0	34.5	33.0	
22 00 00	1 23 05	30.220	38.0	33.0	33.0	

DECEMBER 28, 1841.

0 00 00	1 22 32	30.216	38.0	32.0	32.0	Maximum at 18 hours - 1 24 13
2 00 00	1 22 43	30.240	38.0	32.0	32.0	Minimum at 16 hours - 1 21 18
4 00 00	1 23 09	30.204	39.0	31.2	32.0	Mean - - - - 1 22 45 5
6 00 00	1 23 11	30.194	41.0	31.0	32.0	
8 00 00	1 22 51	30.198	40.0	31.0	32.0	
10 00 00	1 22 46	30.198	40.0	31.0	32.0	
Noon	1 22 20	30.201	39.0	30.5	31.0	
14 00 00	1 21 52	30.212	38.0	30.0	31.0	
16 00 00	1 21 18	30.236	39.0	33.0	32.0	
18 00 00	1 24 13	30.236	41.0	36.0	34.0	
20 00 00	1 24 08	30.161	40.0	39.0	36.0	
22 00 00	1 23 46	30.161	40.0	38.0	36.0	

DECEMBER 29, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 31	30.162	42.0	35.0	36.0	Maximum at 18 hours - 1 25 01
2 00 00	1 22 17	30.222	40.5	33.0	36.0	Minimum at 12 hours - 1 21 10
4 00 00	1 22 17	30.286	41.0	30.5	35.0	Mean - - - 1 23 05.5
6 00 00	1 22 33	30.256	40 0	28 5	33.0	
8 00 00	1 22 37	30.262	40.0	29.0	33.0	
10 00 00	1 22 18	30.304	40.5	30.0	33.0	
Noon	1 21 10	30.318	40.5	31.0	33.0	
14 00 00	1 21 28	30.350	40.0	31.0	33.0	
16 00 00	1 21 30	30.420	42.0	36.0	34.0	
18 00 00	1 25 01	30.420	42.0	42.0	36.0	
20 00 00	1 24 33	30.424	45.0	41.0	38.0	
22 00 00	1 23 13	30.424	45.0	39.0	39.0	

DECEMBER 30, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 30	30.424	46.0	35.0	38.0	Maximum at 18 hours - 1 34 33
2 00 00	1 21 48	30.436	49.0	39.0	38.0	Minimum at 12 hours - 1 21 26
4 00 00	1 21 48	30.436	45 0	32.0	37 0	Mean - - - 1 27 59.5
6 00 00	1 21 33	30.436	44.0	34.0	34.0	
8 00 00	1 21 33	30.276	41.0	34.0	34.0	
10 00 00	1 21 27	30.240	41.0	33.0	34.0	
Noon	1 21 26	30.272	42.0	34.0	34.0	
14 00 00	1 24 11	30.262	42.0	33.0	36 0	
16 00 00	1 24 28	30.268	42.7	34.8	35.5	
18 00 00	1 34 33	30.188	48.5	35.2	36.0	
20 00 00	1 30 38	30.136	47.0	36.5	37.0	
22 00 00	1 25 28	30.116	47.5	36.5	37.5	

DECEMBER 31, 1841.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 08	30.110	45.5	35.5	38.0	Maximum at 18 hours - 1 24 17
2 00 00	1 21 02	30.104	47.0	35.0	37.0	Minimum at 16 hours - 1 20 17
4 00 00	1 20 44	30.104	47.0	34.0	36.0	Mean - - - 1 22 17
6 00 00	1 22 56	30.104	45.0	31.5	36.0	
8 00 00	1 22 43	30.124	44.0	31.0	35.0	
10 00 00	1 22 17	30.126	44.0	30.0	35.0	
Noon	1 22 00	30.126	44.0	29.0	34.0	
14 00 00	1 22 47	30.148	44.0	30.0	34.0	
16 00 00	1 20 17	30.188	45.5	32.0	35.0	
18 00 00	1 24 17	30.122	49.0	36.5	36.0	
20 00 00	1 23 53	30.094	47.8	40.0	39.0	
22 00 00	1 21 45	30.126	52.5	44.0	42.0	

OBSERVATIONS AT WASHINGTON—1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JANUARY 1, 1842.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 20 33	30.160	49 0	40.0	41.0	Maximum at 12 hours - 1 31 44
2 00 00	1 20 48	30.176	45.5	37.0	39.0	Minimum at 0 hours - 1 20 33
4 00 00	1 21 34	30.158	45.0	37.0	38.0	Mean - - - - 1 26 08.5
6 00 00	1 21 34	30.160	45.0	37.0	38.0	
8 00 00	1 22 10	30.202	45.0	36.0	37.5	
10 00 00	1 26 56	30.216	45 5	34.5	36.5	
Noon	1 31 44	30.220	44.0	32.5	35:5	
14 00 00	1 26 49	30.276	44.5	30.5	35.0	
16 00 00	1 27 11	30.252	44.0	35.0	34 0	
18 00 00	1 28 03	30.222	47.2	39.0	36.0	
20 00 00	1 26 04	30.171	46.0	42.0	40.0	
22 00 00	1 25 16	30.162	54.0	41.5	42.0	
JANUARY 2, 1842.						
0 00 00	1 19 53	30.098	49.0	39.5	40.0	Maximum at 18 hours - 1 24 41
2 00 00	1 22 03	30.072	48.0	32.0	39.0	Minimum at 0 hours - 1 19 53
4 00 00	1 22 22	30.019	48.0	33.0	38 5	Mean - - - - 1 22 17
6 00 00	1 22 44	29.976	46.0	32.0	36 0	
8 00 00	1 20 22	29 898	45.0	34.0	36.0	
10 00 00	1 19 56	29.898	42.0	35.0	36.0	REMARKS.
Noon	1 23 11	29.816	44.0	34.5	35.5	
14 00 00	1 24 36	29.828	43.5	33.0	35.0	Barometer probably noted .100 inch too high at 16*h*.
16 00 00	1 22 11	29.804	46.0	37.0	38.0	
18 00 00	1 24 41	29.686	47.0	45.0	39.0	
20 00 00	1 23 26	29.648	50.0	46.5	44.0	
22 00 00	1 23 26	29.636	51.0	47.0	45.0	
JANUARY 3, 1842.						
0 00 00	1 22 12	29.686	48.0	43.0	44.0	Maximum at 18 hours - 1 26 03
2 00 00	1 21 11	29.636	47.0	45.0	44.0	Minimum at 4 hours - 1 19 48
4 00 00	1 19 48	29.661	48.0	45.0	44.0	Mean - - - - 1 22 55 5
6 00 00	1 21 26	29.771	46.0	36.0	40.0	
8 00 00	1 23 36	29.763	46.0	32.0	38.0	
10 00 00	1 22 36	29.861	43.0	27.5	34.0	
Noon	1 22 36	29.940	42.0	25.5	32.0	
14 00 00	1 21 31	30.075	44.0	24.5	30.0	
16 00 00	1 21 51	30.166	45.5	25.0	30 0	
18 00 00	1 26 03	30.172	48 0	26.0	32.0	
20 00 00	1 25 19	30.130	44.5	28.0	35.0	
22 00 00	1 23 37	30.130	44.5	27.5	35.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JANUARY 4, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 48	30.124	43.5	27.0	32.5	Maximum at 18 hours - 1 25 02
2 00 00	1 23 14	30.126	44.5	26.5	31.0	Minimum at 16 hours - 1 20 36
4 00 00	1 21 59	30.084	43.5	26.5	30.0	Mean - - - - 1 22 49
6 00 00	1 22 38	29.986	43.0	26.0	30.0	
8 00 00	1 22 51	29.900	42.0	26.0	29.5	
10 00 00	1 23 17	29.830	42.0	27.0	29.0	
Noon	1 22 21	29.806	41.0	29.0	29.0	
14 00 00	1 21 28	29.804	41.0	32.0	31.0	
16 00 00	1 20 36	29 822	42.0	37.0	34.0	
18 00 00	1 25 02	29.768	46.0	43.0	36.0	
20 00 00	1 24 26	29.768	45.0	45.0	42.0	
22 00 00	1 23 22	29.848	48.0	47.5	45.0	
JANUARY 5, 1842.						
0 00 00	1 22 06	29.890	49.0	44.5	45.0	Maximum at 18 hours - 1 25 01
2 00 00	1 21 55	29.960	47.5	40.0	41.0	Minimum at 4 hours - 1 18 48
4 00 00	1 18 48	30.046	47.5	38.5	40.0	Mean - - - - 1 21 54.5
6 00 00	1 22 50	30.126	45.5	33.7	37.5	
8 00 00	1 21 51	30.170	45.5	29 5	34.5	
10 00 00	1 23 39	30.234	45.0	26.5	32.0	REMARKS.
Noon	1 22 19	30.312	43.0	24.5	30.0	
14 00 00	1 19 23	30 392	42.0	23.0	29.0	Attached thermometer probably noted 10° too high at 22*h*.
16 00 00	1 21 46	30.476	43.0	28.0	28.0	
18 00 00	1 25 01	30.436	43.0	31.0	30 0	
20 00 00	1 23 31	30.460	45.0	32.8	32.0	
22 00 00	1 23 41	30.474	55.0	33.0	34.0	
JANUARY 6, 1842.						
0 00 00	1 20 43	30.486	45.0	29.0	32.0	Maximum at 20 hours - 1 26 01
2 00 00	1 21 04	30.536	45.0	26.0	31.0	Minimum at 16 hours - 1 20 00
4 00 00	1 22 21	30.554	44.0	24.0	30.0	Mean - - - - 1 23 00.5
6 00 00	1 22 21	30.552	42.0	22.0	28.0	
8 00 00	1 22 16	30.548	42.0	21.0	27.0	
10 00 00	1 22 01	30.531	40.5	22.0	27.0	
Noon	1 21 37	30.531	40.0	22.0	26.0	
14 00 00	1 20 27	30.518	40.0	22.0	26.0	
16 00 00	1 20 00	30.466	40.0	32.0	28.0	
18 00 00	1 24 22	30.336	41.0	36 0	31.0	
20 00 00	1 26 01	30.284	44.0	37.0	32.0	
22 00 00	1 24 28	30.228	42.0	35.0	33.0	

OBSERVATIONS AT WASHINGTON—1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JANUARY 7, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 16	30.158	41.0	34.0	34.0	Maximum at 20 hours - 1 25 51
2 00 00	1 21 31	30.036	42.0	35.0	34.0	Minimum at 14 hours - 1 20 06
4 00 00	1 20 46	29.951	42.0	35.0	34.0	Mean - - - 1 22 58.5
6 00 00	1 20 46	29.871	41.5	37.0	34.0	
8 00 00	1 22 33	29.871	41.0	38.0	34.0	
10 00 00	1 22 06	29.836	43.0	39.0	36.0	
Noon	1 22 06	29.836	43.0	39.0	36.0	
14 00 00	1 20 06	29.836	45.0	41.0	38.0	
16 00 00	1 22 46	29.806	47.0	43.5	40.5	
18 00 00	1 24 37	29.806	45.5	43.5	43.0	
20 00 00	1 25 51	29.834	45.0	40.0	43.0	
22 00 00	1 23 32	29.900	48.5	39.5	42.0	
JANUARY 8, 1842.						
0 00 00	1 22 55	29.936	48.5	38.5	41.0	Maximum at 18 hours - 1 25 20
2 00 00	1 21 57	29.984	47.0	37.5	40.0	Minimum at 14 hours - 1 20 21
4 00 00	1 22 27	30.018	47.0	37.0	40.0	Mean - - - 1 22 50.5
6 00 00	1 22 57	30.030	47.0	36.0	39.5	
8 00 00	1 22 19	30.046	47.0	35.5	39.0	
10 00 00	1 22 19	30.064	46.0	35.0	38.0	
Noon	1 21 42	30.096	45.5	35.0	38.0	
14 00 00	1 20 21	30.136	45.0	36.0	38.0	
16 00 00	1 21 34	30.214	47.0	37.5	38.0	
18 00 00	1 25 20	30.152	51.5	40.0	40.0	
20 00 00	1 23 58	30.136	53.0	39.5	42.0	
22 00 00	1 22 34	30.068	52.0	37.5	40.0	
JANUARY 9, 1842.						
0 00 00	1 21 24	30.070	51.0	35.0	41.0	Maximum at 20 hours - 1 23 17
2 00 00	1 21 36	30.076	48.5	35.0	39.0	Minimum at 14 hours - 1 19 55
4 00 00	1 22 05	30.040	49.0	35.5	38.0	Mean - - - 1 21 36
6 00 00		29.986	49.5	36.0	38.0	
8 00 00	1 22 17	29.988	49.0	37.5	38.5	
10 00 00	1 22 05	29.974	50.0	38.5	39.0	
Noon	1 21 34	29.974	49.5	39.0	39 0	
14 00 00	1 19 55	30.068	49.0	40.0	40.0	
16 00 00	1 21 48	30.156	52.5	43.0	40.0	
18 00 00	1 23 16	30.172	50.0	51.0	44.0	
20 00 00	1 23 17	30.172	52.0	56.0	50.0	
22 00 00	1 21 38	30.175	55.0	52.5	50.0	

JANUARY 10, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ' ''	Inches.	°	°	°	° ' ''
0 00 00	1 21 36	30.176	54.0	48.0	48.0	Maximum at 18 hours - 1 26 34
2 00 00	1 21 23	30.280	54.5	46.5	48.0	Minimum at 14 hours - 1 20 23
4 00 00	1 22 24	30.288	55.5	45.0	48.0	Mean - - - 1 23 26.5
6 00 00	1 22 24	30.286	55.0	43.0	46.0	
8 00 00	1 22 16	30.280	55.0	41.0	45.0	
10 00 00	1 22·05	30.270	54.0	38.0	44.0	
Noon	1 21 31	30.264	52.0	37.0	42.0	
14 00 00	1 20 23	30.264	51.0	37.0	42.0	
16 00 00	1 23 31	30.186	53.5	37.0	40.0	
18 00 00	1 26 34	30.200	55.0	37.0	39.0	
20 00 00	1 24 53	30.200	54.0	37.0	39.0	
22 00 00	1 22 48	30.208	51.0	37.0	38.0	

JANUARY 11, 1842.

0 00 00	1 22 40	30.232	51.0	36.5	38.0	Maximum at 18 hours - 1 24 32
2 00 00	1 21 43	30.267	50.0	36.5	38.0	Minimum at 14 hours - 1 19 41
4 00 00	1 21 01	30.267	50.0	35.0	34.0	Mean - - - 1 22 06.5
6 00 00	1 20 16	30.246	49.0	35.5	36.0	
8 00 00	1 20 28	30.246	49.0	35.0	36.0	
10 00 00	1 20 36	30.236	49.0	35.0	34.0	
Noon	1 20 36	30.181	49.0	35.0	34.0	
14 00 00	1 19 41	30.181	49.0	33.0	34.0	
16 00 00	1 21 20	30.220	51.0	35.5	36.0	
18 00 00	1 24 32	30.120	50.0	38.5	37.5	
20 00 00	1 23 07	30.058	48.5	41.5	40.0	
22 00 00	1 24 30	30.040	50.5	37.5	38.0	

JANUARY 12, 1842.

0 00 00	1 24 59	30.036	51.0	34.5	37.0	Maximum at 18 hours - 1 25 31
2 00 00	1 17 51	30.032	48.0	33.5	38.0	Minimum at 2 hours - 1 17 51
4 00 00	1 22 13	30.028	47.5	33.0	36.0	Mean - - - 1 21 41
6 00 00	1 22 32	29.998	47.0	32.0	35.0	
8 00 00	1 22 47	29.998	46.0	31.5	34.0	
10 00 00	1 23 21	29.986	45.0	30.0	34.0	
Noon	1 21 48	29.986	45.0	31.0	34.0	
14 00 00	1 20 22	29.986	46.0	32.0	34.0	
16 00 00	1 20 58	30.006	46.0	36.5	36.0	
18 00 00	1 25 31	29.924	48.0	40.0	39.0	
20 00 00	1 24 10	29.872	49.0	45.0	43.0	
22 00 00	1 22 40	29.828	49.0	43.5	43.0	

OBSERVATIONS AT WASHINGTON—1842.

JANUARY 13, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 21 29	29.806	48.5	41.0	41.0	Maximum at 20 hours - 1 27 41
2 00 00	1 21 42	29.860	47.0	40.0	42.0	Minimum at 14 hours - 1 20 54
4 00 00	1 21 53	29.860	47.5	37.0	41.0	Mean - - - 1 24 17.5
6 00 00	1 23 05	29.892	46.5	37.0	39.0	
8 00 00	1 23 22	29.901	46.0	36.0	38.0	
10 00 00	1 23 01	30.003	45.5	35.0	36.0	
Noon	1 21 46	30.100	45.0	31.0	35.0	
14 00 00	1 20 54	30.186	45.0	31.0	34.0	
16 00 00	1 21 26	30.281	45.0	32.0	32.0	
18 00 00	1 27 33	30.281	44.5	32.0	34.0	
20 00 00	1 27 41	30.286	45.0	35.5	38.0	
22 00 00	1 23 41	30.286	52.0	37.0	40.0	

JANUARY 14, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 21 41	30.291	47.0	33.0	38.0	Maximum at 18 hours - 1 26 25
2 00 00	1 20 31	30.291	45.0	30.0	36.0	Minimum at 14 hours - 1 20 06
4 00 00	1 20 26	30.284	45.0	29.5	34.0	Mean - - - 1 23 15.5
6 00 00	1 22 11	30.256	44.0	29.0	32.0	
8 00 00	1 22 11	30.256	44.0	29.0	32.0	
10 00 00	1 22 03	30.200	43.0	29.0	32.0	
Noon	1 21 31	30.175	43.0	30.5	32.0	
14 00 00	1 20 06	30.086	43.0	34.0	32 0	
16 00 00	1 22 19	30.016	43.5	38.5	36.0	
18 00 00	1 26 25	29.908	46.0	42.5	38.0	
20 00 00	1 25 02	29.816	46.0	45.0	41.0	
22 00 00	1 23 17	29.796	46.0	46.0	44.0	

JANUARY 15, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 22 18	29.812	47.0	44.0	44.0	Maximum at 18 hours - 1 26 32
2 00 00	1 20 35	29.806	46.0	44.0	44.0	Minimum at 2 hours - 1 20 35
4 00 00	1 21 42	29.808	46.0	41.5	43.0	Mean - - - 1 23 33.5
6 00 00	1 22 30	29.808	46.0	39.5	42.0	
8 00 00	1 22 42	29.816	45.5	37.0	41.0	
10 00 00	1 23 18	29.846	45.0	35.0	39.0	
Noon	1 21 32	29.876	45.0	34.5	39.0	
14 00 00	1 20 37	29.946	44.5	35.0	38.0	
16 00 00	1 21 05	30.028	45.5	38.5	38.0	
18 00 00	1 26 32	30.028	45.0	39.5	39.0	
20 00 00	1 25 51	29.996	44.5	39.5	40.0	
22 00 00	1 22 27	29.996	48.0	38.0	40.0	

JANUARY 16, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 25 46	29.998	48.0	36.5	37.0	Maximum at 4 hours - 1 27 17
2 00 00	1 21 26	30.040	44.0	32.0	36.0	Minimum at 14 hours - 1 18 51
4 00 00	1 27 17	30.036	46.0	32.0	37.0	Mean - - - 1 23 04
6 00 00	1 23 04	29.964	44.0	30.0	34.0	
8 00 00	1 21 22	29.921	43.0	30.0	33.0	
10 00 00	1 21 16	29.911	43.0	30.0	31.0	REMARKS.
Noon	1 20 16	29.888	43.0	30.0	31.0	At 2*h.* 27*m.*, an auroral arch formed; altitude of centre, 8°; extremities of arch bearing N. by W. and N. E. by N. Disappeared at 3*h.* 35*m.* See extraordinary observations.
14 00 00	1 18 51	29.846	43.0	30.0	31.0	
16 00 00	1 21 13	29.882	44.0	34.0	32.0	
18 00 00	1 24 36	29.861	46.0	41.0	36.0	
20 00 00	1 24 36	29.861	46.0	43.0	40.0	
22 00 00	1 22 21	29.872	52.0	41.5	42.0	

JANUARY 17, 1842.

0 00 00	1 21 23	29.836	47.0	37.0	42.0	Maximum at 20 hours - 1 26 52
2 00 00	1 20 50	29.978	45.0	33.0	39.0	Minimum at 14 hours - 1 19 41
4 00 00	1 21 41	30.036	45.0	28.5	36.0	Mean - - - 1 23 16.5
6 00 00	1 22 06	30.062	45.0	28.5	34.0	
8 00 00	1 21 31	30.066	44.0	26.0	32.0	
10 00 00	1 21 31	30.066	43.0	26.0	32.0	
Noon	1 20 38	30.077	43.0	27.0	30.0	
14 00 00	1 19 41	30.142	44.0	27.5	30.0	
16 00 00	1 20 08	30.168	45.0	33.0	32.0	
18 00 00	1 26 33	30.116	45.0	41.5	38.0	
20 00 00	1 26 52	30.066	45.5	45.0	41.0	
22 00 00	1 24 12	30.072	54.0	45.0	44.0	

JANUARY 18, 1842.

0 00 00	1 23 03	30.064	59.0	40.5	46.0	Maximum at 20 hours - 1 29 15
2 00 00	1 22 06	30.050	46.0	37.5	42.0	Minimum at 4 hours - 1 20 31
4 00 00	1 20 31	30.044	46.0	37.0	41.0	Mean - - - 1 24 53
6 00 00	1 23 03	30.048	46.0	35.0	40.0	
8 00 00	1 23 20	30.052	45.0	33.0	39.0	
10 00 00	1 22 41	30.056	45.0	31.0	37.0	
Noon	1 22 01	30.056	45.0	29.0	34.0	
14 00 00	1 20 40	30.052	44.5	29.5	34.0	
16 00 00	1 21 39	30.148	47.0	36.0	36.0	
18 00 00	1 28 44	30.128	48.0	43.0	40.0	
20 00 00	1 29 15	30.086	48.0	50.5	48.0	
22 00 00	1 25 42	30.086	50.0	53.0	52.0	

OBSERVATIONS AT WASHINGTON—1842.

JANUARY 19, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	
0 00 00	1 10 40	30.106	51.5	48.0	48.0	
2 00 00	1 06 40	30.106	49.0	41.0	49.0	
4 00 00	1 15 16	30.102	51.0	38.0	45.0	
6 00 00	1 19 42	30.102	52.0	34.0	40.0	
8 00 00	1 23 23	30.102	53.5	31.5	38.0	
10 00 00	1 24 22	30.100	52.0	31.0	36.0	
Noon	1 22 26	30.094	48.0	28.0	33.0	
14 00 00	1 19 38	30.094	48.0	28.0	33.0	
16 00 00	1 19 33	30.086	48.0	35.0	34.0	
18 00 00	1 25 31	30.036	50.0	47.0	42.0	
20 00 00	1 25 39	29.986	52.0	53.5	50.0	
22 00 00	1 23 53	29.986	56.0	56.0	54.0	

	° ′ ″
Maximum at 20 hours -	1 25 39
Minimum at 2 hours -	1 06 40
Mean - - -	1 16 09.5

JANUARY 20, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 22 06	29.986	54.0	50.0	52.0
2 00 00	1 21 21	29.984	54.0	44.5	50.0
4 00 00	1 19 53	29.984	53.0	41.0	46.0
6 00 00	1 21 41	29.984	51.0	39.5	44.0
8 00 00	1 21 46	29.936	51.0	39.0	42.0
10 00 00	1 21 36	29.900	51.0	39.0	42.0
Noon	1 21 53	29.884	50.0	40.0	42.0
14 00 00	1 20 53	29.876	52.0	40.0	42.0
16 00 00	1 20 31	29.836	56.0	46.0	44.0
18 00 00	1 25 36	29.776	58.5	56.5	51.0
20 00 00	1 26 50	29.710	59.5	63.5	56.0
22 00 00	1 23 23	29.686	60.0	63.0	59.0

Maximum at 20 hours -	1 26 50
Minimum at 4 hours -	1 19 53
Mean - - -	1 23 21.5

JANUARY 21, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 22 39	29.666	60.0	55.5	57.0
2 00 00	1 21 48	29.610	57.5	55.0	56.0
4 00 00	1 22 40	29.566	56.5	53.0	55.0
6 00 00	1 22 57	29.528	56.0	51.0	54.0
8 00 00	1 23 19	29.506	56.0	50.0	53.0
10 00 00	1 21 42	29.506	55.5	48.0	51.5
Noon	1 21 01	29.506	54.0	43.5	50.0
14 00 00	1 20 00	29.546	54.0	41.0	46.0
16 00 00	1 21 39	29.648	53.0	42.0	44.0
18 00 00	1 27 06	29.600	54.5	43.0	46.0
20 00 00	1 26 43	29.600	56.0	45.5	47.0
22 00 00	1 24 41	29.600	57.5	45.0	46.0

Maximum at 18 hours -	1 27 06
Minimum at 14 hours -	1 20 00
Mean - - -	1 23 33

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JANUARY 22, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 23	29.738	55.0	42.0	43.0	Maximum at 20 hours - 1 25 37
2 00 00		29.822	51.5	37.0	42.0	Minimum at 14 hours - 1 20 05
4 00 00		29.850	53.0	36.0	40.0	Mean - - 1 22 51
6 00 00	1 20 19	29.896	55.0	35.0	39.0	
8 00 00	1 23 32	29.948	53.0	33.0	38.0	
10 00 00	1 22 25	29.979	50.0	31.0	35.0	
Noon	1 20 36	29.981	49.0	29.0	33.0	
14 00 00	1 20 05	29.998	49.0	29.0	33.0	
16 00 00	1 22 51	29.998	49.0	37.5	36.0	
18 00 00	1 25 36	29.996	53.0	39.5	38.0	
20 00 00	1 25 37	29.996	51.0	40.0	40.0	
22 00 00	1 23 04	29.996	51.5	40.0	40.0	
JANUARY 23, 1842.						
0 00 00	1 23 03	30.136	49.0	32.0	38.0	Maximum at 20 hours - 1 26 27
2 00 00	1 23 03	30.136	49.0	32.0	38.0	Minimum at 16 hours - 1 20 18
4 00 00	1 22 31	30.246	45.0	28.0	32.0	Mean - - - 1 29 22.5
6 00 00	1 22 26	30.246	45.0	28.0	30.0	
8 00 00	1 22 26	30.246	45.0	26.0	30.0	
10 00 00	1 21 41	30.280	43.5	26.0	30.0	
Noon	1 21 23	30.300	42.0	22.0	28.0	
14 00 00	1 21 38	30.376	44.0	21.0	28.0	
16 00 00	1 20 18	30.516	42.5	21.0	28.0	
18 00 00	1 23 03	30.486	42.0	28.0	31.0	
20 00 00	1 26 27	30.468	42.0	29.0	33.0	
22 00 00	1 24 14	30.486	42.0	27.5	32.0	
JANUARY 24, 1842.						
0 00 00	1 25 20	30.486	42.0	24.0	30.0	Maximum at 22 hours - 1 28 26
2 00 00	1 23 45	30.532	41.5	22.5	28 0	Minimum at 14 hours - 1 20 09
4 00 00	1 21 02	30.589	41.5	19.0	28.0	Mean - - - 1 24 17.5
6 00 00	1 22 56	30.616	40.5	18.0	26.0	
8 00 00	1 23 00	30.628	39.5	17.5	24.0	
10 00 00	1 22 36	30.634	38.0	15.0	22.0	
Noon	1 22 14	30.644	37.0	13.0	20.0	
14 00 00	1 20 09	30.652	36.0	12.5	20.0	
16 00 00	1 22 51	30.686	38.0	21.5	23.0	
18 00 00	1 26 42	30.686	43.5	24.5	27.0	
20 00 00	1 25 18	30.572	40.5	28.0	29.0	
22 00 00	1 28 26	30.544	46.0	29.0	30.0	

OBSERVATIONS AT WASHINGTON—1842.

JANUARY 25, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 28	30.536	42.5	27.0	28.5	Maximum at 0 hours - 1 27 28
2 00 00	1 23 15	30.496	40.0	24.0	28.0	Minimum at 10 hours - 1 19 41
4 00 00	1 22 24	30.438	39.5	23.0	27.0	Mean - - - - 1 23 34.5
6 00 00	1 20 22	30.386	39.0	22.0	26.0	
8 00 00	1 20 06	30.371	38.0	21.0	25.0	
10 00 00	1 19 41	30.311	38.0	21.5	26.0	
Noon	1 21 17	30.281	37.0	23.0	26.0	
14 00 00	1 22 28	30.250	37.0	24.5	26.0	
16 00 00	1 21 43	30.218	39.0	31.0	28.0	
18 00 00	1 24 21	30.186	42.0	36.0	30.0	
20 00 00	1 25 48	30.186	43 0	37.0	32.0	
22 00 00	1 23 48	30.086	41.5	36.5	32.0	

JANUARY 26, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 22 09	30.086	42.0	35.0	32.5	Maximum at 20 hours - 1 25 02
2 00 00	1 21 06	30.036	40.0	35.0	32.0	Minimum at 12 hours - 1 20 13
4 00 00	1 21 06	30.036	40.0	35.0	32.0	Mean - - - - 1 22 37.5
6 00 00	1 20 33	30.036	40.0	35.0	32.0	
8 00 00	1 20 16	29.900	40.0	35.0	32.0	
10 00 00	1 20 16	29 900	40 0	34.5	32.0	
Noon	1 20 13	29.986	40.0	34.5	32.0	
14 00 00	1 21 23	29.986	41.0	31.0	32.0	
16 00 00	1 22 05	29.924	40.0	36.0	33.0	
18 00 00	1 24 39	29.822	42.0	39.5	36.0	
20 00 00	1 25 02	29.762	45.0	45.0	39.0	
22 00 00	1 23 50	29.706	47.0	42.0	40.0	

JANUARY 27, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 23 11	29.662	47.0	37.0	39.0	Maximum at 22 hours - 1 29 16
2 00 00	1 22 43	29.622	43.2	38.2	38.8	Minimum at 14 hours - 1 20 06
4 00 00	1 22 46	29.596	43.0	38.0	38.5	Mean - - - - 1 24 41
6 00 00	1 23 08	29.626	47 5	37.0	38.0	
8 00 00	1 23 14	29.658	45.5	37.5	38.0	
10 00 00	1 22 16	29.698	44.0	36.0	37.5	
Noon	1 21 32	29.788	43.0	35.0	37.0	
14 00 00	1 20 06	29.860	43.0	35.0	36.0	
16 00 00	1 20 38	30.078	42.0	36.5	36.0	
18 00 00	1 21 31	30.092	42.0	38.5	37.0	
20 00 00	1 26 20	30.094	42.5	40.0	40.0	
22 00 00	1 29 16	30.200	43.0	40.0	40.0	

JANUARY 28, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 25 18	30.274	43.5	39.0	38.0	Maximum at 2 hours - 1 25 19
2 00 00	1 25 19	30.336	44.0	33.0	36.0	Minimum at 16 hours - 1 20 16
4 00 00	1 22 28	30.376	44.0	32.0	35.0	Mean - - - 1 22 47.5
6 00 00	1 22 41	30 348	43.0	30.0	33.0	
8 00 00	1 22 44	30.378	42.0	26 0	32.0	
10 00 00	1 21 22	30.388	42 0	23.0	30.0	
Noon	1 21 14	30.391	41.0	21.0	28.0	
14 00 00	1 20 41	30.406	41.0	21.5	28.0	
16 00 00	1 20 16	30.356	42.5	32.0	30.0	
18 00 00	1 22 23	30.336	43.0	42.5	36.0	
20 00 00	1 25 06	30.261	43.5	45.5	40.0	
22 00 00	1 23 18	30.186	46.0	45.5	42 0	

JANUARY 29, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 18	30.184	46.0	42.0	44 0	Maximum at 20 hours - 1 25 46
2 00 00	1 19 53	30.164	44.0	38.5	42.0	Minimum at 16 hours - 1 19 49
4 00 00	1 21 36	30.081	46.0	40.0	40.0	Mean - - - 1 22 47.5
6 00 00	1 22 16	30.054	46.0	40.5	40.0	
8 00 00	1 22 16	30.051	45.0	42.0	42 0	
10 00 00	1 22 23	30.052	45.0	42.0	42.0	
Noon	1 22 13	30.052	45.0	42.0	42.0	
14 00 00	1 21 46	30 052	45.0	43.0	42.0	
16 00 00	1 19 49	29.992	47.0	49.0	44.0	
18 00 00	1 25 18	29.922	48.5	54.0	48 0	
20 00 00	1 25 46	29.828	49.0	55.0	52.0	
22 00 00	1 23 31	29.810	52.0	55.0	54.0	

JANUARY 30, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 22 33	29.786	52.0	50.5	51.0	Maximum at 20 hours - 1 26 13
2 00 00	1 21 42	29.736	50.5	50.0	51.0	Minimum at 4 hours - 1 19 13
4 00 00	1 19 13	29.684	51.0	49.0	50.5	Mean - - - 1 22 43
6 00 00	1 22 29	29.686	51.0	50.0	50.5	
8 00 00	1 22 53	29.766	51.5	49.0	49.0	
10 00 00	1 23 05	29.854	51.0	46.0	48.0	
Noon	1 23 18	29.932	51.5	41.0	47.0	
14 00 00	1 23 31	30.032	50.0	42.0	46.0	
16 00 00	1 20 58	30.104	50 0	47.5	47.0	
18 00 00	1 25 10	30.100	50.0	50.5	50.0	
20 00 00	1 26 13	30.016	52.0	53.0	54.0	
22 00 00	1 23 05	30.072	56.0	54.0	56.0	

JANUARY 31, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 38	30.086	54.0	50.0	53.0	Maximum at 18 hours - 1 26 19
2 00 00	1 22 12	30.078	54.0	44.5	51.0	Minimum at 6 hours - 1 20 28
4 00 00	1 21 20	30.041	54.0	42.0	49.0	Mean - - - 1 23 23.5
6 00 00	1 20 28	30.022	54.5	40.0	47.0	
8 00 00	1 22 05	30.001	54.0	39.0	46.0	
10 00 00	1 21 21	30.000	53.0	41.0	46.0	
Noon	1 20 37	29.910	53 0	43.0	44.0	
14 00 00	1 20 34	29.836	51.0	44.0	44.0	
16 00 00	1 20 38	29.809	53.0	50.5	49.0	
18 00 00	1 26 19	29.610	55.0	54.0	52.0	
20 00 00	1 25 28	29.652	55 0	55.0	52.0	
22 00 00	1 23 12	29.672	54.5	54.0	53.0	

FEBRUARY 1, 1842.

0 00 00	1 21 52	29.680	56.5	52.0	54.0	Maximum at 18 hours - 1 26 09
2 00 00	1 21 57	29 782	55.5	50.0	54.0	Minimum at 6 hours - 1 20 21
4 00 00	1 20 52	29.872	53.5	44.5	50.0	Mean - - - 1 23 15
6 00 00	1 20 21	29.916	52.0	41.0	46.0	
8 00 00	1 22 51	29.962	51.5	37.5	44.0	
10 00 00	1 25 44	30.028	51.0	36.0	42.0	
Noon	1 20 22	30.100	50.0	35.0	40.0	
14 00 00	1 21 32	30.178	50.5	35.0	39.0	
16 00 00	1 24 36	30.336	51.0	39.0	38.0	
18 00 00	1 26 09	30.336	52.0	42.0	42.0	
20 00 00	1 25 41	30.338	51.0	44.5	46.0	
22 00 00	1 21 46	30.346	52.0	46.0	48.0	

FEBRUARY 2, 1842.

0 00 00	1 21 42	30.368	53.0	40.0	46.0	Maximum at 20 hours - 1 26 51
2 00 00	1 19 56	30.370	55.0	32.5	40.0	Minimum at 14 hours - 1 19 41
4 00 00	1 19 51	30.370	52.0	30.0	38.0	Mean - - - 1 23 16
6 00 00	1 21 18	30.366	50.0	27.0	36.0	
8 00 00	1 22 23	30.356	49.0	26.0	32.0	
10 00 00	1 21 26	30.348	49.0	25.0	30.0	
Noon	1 26 31	30.348	49.0	27.0	30.0	
14 00 00	1 19 41	30.344	50.0	30.0	30.0	
16 00 00	1 21 10	30.386	49.0	36.5	34.0	
18 00 00	1 25 41	30.304	51.0	45.0	39.0	
20 00 00	1 26 51	30.216	52.0	50.0	44.0	
22 00 00	1 23 49	30.186	54.0	51.0	47.0	

FEBRUARY 3, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 03	30.178	54.0	47.0	48.0	Maximum at 20 hours - 1 25 49
2 00 00	1 22 36	30.138	55.0	46.5	47.0	Minimum at 12 hours - 1 21 01
4 00 00	1 21 36	30.112	54.0	46.0	47.0	Mean - - 1 23 25
6 00 00	1 21 31	30.076	54.0	45.0	46.0	
8 00 00	1 21 21	30.002	54.0	46.0	46.0	
10 00 00	1 21 14	29.930	55.0	47.0	46.0	
Noon	1 21 01	29.885	56.0	47.5	47.0	
14 00 00	1 22 23	29.864	57.0	50.0	48.0	
16 00 00	1 22 22	29.876	54.0	58.5	54.0	
18 00 00	1 23 27	29.800	57.0	62.0	57.0	
20 00 00	1 25 49	29.780	59.0	65.0	59.0	
22 00 00	1 23 51	29.756	60.0	66.5	62.0	

FEBRUARY 4, 1842.

0 00 00	1 22 25	29.760	60.0	62.0	60.0	Maximum at 20 hours - 1 25 31
2 00 00	1 20 44	29.762	61.5	65.0	62.0	Minimum at 14 hours - 1 20 26
4 00 00	1 21 34	29.732	64.0	66.0	64.0	Mean - - - 1 22 58 5
6 00 00	1 22 32	29.708	65.0	66.0	64.0	
8 00 00	1 23 05	29.658	65.0	66.0	65.0	
10 00 00	1 22 23	29.680	65.0	64.0	64.0	
Noon	1 21 27	29.711	64.0	62.0	63.0	
14 00 00	1 20 26	29.726	63.5	62.0	62.0	
16 00 00	1 21 32	29.737	64.0	62.5	62.0	
18 00 00	1 25 26	29.696	66.0	68.0	62.0	
20 00 00	1 25 31	29.620	67.0	69.0	62.0	
22 00 00	1 23 48	29.568	67.5	70.0	62.0	

FEBRUARY 5, 1842.

0 00 00	1 22 28	29.494	67.0	64.0	66.0	Maximum at 4 hours - 1 25 04
2 00 00	1 22 21	29.472	67.5	66.0	64.0	Minimum at 14 hours - 1 20 11
4 00 00	1 25 04	29.460	66.0	64.0	62.0	Mean - - - 1 22 37.5
6 00 00	1 22 51	29.486	65.0	56.0	60.0	
8 00 00	1 22 04	29 580	62.5	50.0	56.0	
10 00 00	1 22 31	29.678	61.0	47.5	52.0	
Noon	1 21 11	29.728	60.0	46.5	52.0	
14 00 00	1 20 11	29.876	59.0	48.0	49.0	
16 00 00	1 23 18	29.970	60.0	49.5	50.0	
18 00 00	1 24 19	30.036	60.0	48.5	50.0	
20 00 00	1 23 11	30.036	59.0	47.0	50.0	
22 00 00	1 23 11	30.078	59.0	47.0	50.0	

FEBRUARY 6, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	Inches.	°	°	°
0 00 00	1 22 36	30.136	60.0	44.5	48.0
2 00 00	1 21 36	30.176	60.0	41.0	44.5
4 00 00	1 21 46	30.184	58.0	39.0	42.5
6 00 00	1 21 36	30.254	57.0	35.0	40.0
8 00 00	1 22 16	30.256	56.0	32.5	38.0
10 00 00	1 22 21	30.256	56.0	32.5	36.0
Noon	1 21 56	30.258	55.0	30.0	34.0
14 00 00	1 21 29	30.260	57.0	31.0	34.0
16 00 00	1 20 56	30.210	57.5	40.5	38.0
18 00 00	1 23 49	30.152	59.5	47.5	43.0
20 00 00	1 24 16	30.056	60.5	56.0	51.0
22 00 00	1 24 26	30.002	61.0	57.0	54.0

	° ′ ″
Maximum at 22 hours -	1 24 26
Minimum at 16 hours -	1 20 56
Mean - - -	1 22 41

FEBRUARY 7, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 23 41	30.006	61.0	50.5	53.0
2 00 00	1 24 06	29.978	58.0	47.5	51.0
4 00 00	1 25 42	29.928	57.0	45.0	51 0
6 00 00	1 20 19	29.904	57.0	44.0	48.0
8 00 00	1 21 28	29.876	56.5	43.0	46.0
10 00 00	1 20 54	29.828	56.0	45.5	46.0
Noon	1 20 21	29.796	55.5	46.5	47.0
14 00 00	1 22 37	29.746	55.5	47.5	48.0
16 00 00	1 27 16	29.786	56.0	48.0	48.0
18 00 00	1 25 51	29.728	55.5	49.0	49.0
20 00 00	1 25 06	29.670	57.0	50.0	48.0
22 00 00	1 20 32	29.636	58.0	50.0	49.0

Maximum at 16 hours -	1 27 16
Minimum at 6 hours -	1 20 19
Mean - - -	1 23 47.6

REMARKS.

At 3*h*. 10*m*., a diffused auroral light, extending from N. E. by N. to N. W. by N. At 3*h*. 20*m*., a brilliant arch; altitude of highest part 8°, bearing N. by E. At 3*h*. 35*m*., eastern portion fading, western steadily advancing to the west. At 3*h*. 45*m*., visible only as a faint light. See extraordinary observations.

FEBRUARY 8, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 21 37	29.631	57.5	48.0	48.0
2 00 00	1 23 01	29.636	58.0	47.0	46.0
4 00 00	1 23 27	29.636	58.0	46.0	46.0
6 00 00	1 22 51	29.684	56.0	43.0	46.0
8 00 00	1 24 47	29.691	54.0	39.0	44.0
10 00 00	1 23 37	29.705	53.0	37.0	40.0
Noon	1 21 17	29.224	52.0	33.0	38.0
14 00 00	1 22 11	29.728	52.0	33.0	38.0
16 00 00	1 21 32	29.706	55.0	50.0	40.0
18 00 00	1 24 51	29.728	55.0	32.0	38.0
20 00 00	1 25 42	29.802	50.5	31.5	36.0
22 00 00	1 25 29	29.902	46.0	27.0	32.0

Maximum at 20 hours -	1 25 42
Minimum at 12 hours -	1 21 17
Mean - - -	1 23 29.5

REMARKS.

Barometer at noon evidently noted .500 inch too high. Temperature of the air at 16*h*. probably too high.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
FEBRUARY 9, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 22 36	29.996	44.0	25.0	32.0	Maximum at 2 hours - 1 25 26
2 00 00	1 25 26	30.124	45.0	23.0	28.0	Minimum at 16 hours - 1 21 11
4 00 00	1 23 47	30.216	40.5	19.5	24.0	Mean - - - 1 23 18.5
6 00 00	1 24 51	30.258	44.0	16.0	24.0	
8 00 00	1 25 03	30.278	37.0	17.0	24.0	
10 00 00	1 25 06	30.298	38.0	16.0	22.0	
Noon	1 24 32	30.344	37.0	17.0	22.0	
14 00 00	1 21 58	30.362	37.0	18.0	22.0	
16 00 00	1 21 11	30.384	39.0	22.5	22.0	
18 00 00	1 24 31	30.376	38.5	26.5	26 0	
20 00 00	1 24 49	30.244	39.0	30.0	30.0	
22 00 00	1 23 46	30.146	40.0	33.0	32.0	
FEBRUARY 10, 1842.						
0 00 00	1 22 46	30.140	40.0	31.5	32.0	Maximum at 20 hours - 1 26 24
2 00 00	1 21 11	30.066	39.0	31.0	30.0	Minimum at 16 hours - 1 19 25
4 00 00	1 21 38	30.048	39.0	31.0	30.0	Mean - - - 1 22 54.5
6 00 00	1 21 38	30.048	39.0	31.0	30.0	
8 00 00	1 21 06	30.040	38.0	31.0	30.0	
10 00 00	1 21 21	30.040	38.0	30.0	30.0	
Noon	1 21 41	30.038	38.0	29.0	30.0	
14 00 00	1 20 14	30 054	38.0	30.0	30.0	
16 00 00	1 19 25	30.148	42.0	34.0	32.0	
18 00 00	1 23 30	30.116	42.5	42.0	38.0	
20 00 00	1 26 24	30.112	42.0	49.0	42.0	
22 00 00	1 25 52	30.106	44.0	49.0	44.0	
FEBRUARY 11, 1842.						
0 00 00	1 23 14	30.142	44.0	43.5	45.0	Maximum at hours -
2 00 00	1 21 43	30.146	43.0	38.0	48.0	Minimum at hours -
4 00 00	1 22 46	30.178	43.0	36.0	40.0	Mean - - - . -
6 00 00	1 22 36	30.188	43.0	33.5	38 0	
8 00 00	1 22 23	30.188	43.0	32.0	37.5	
10 00 00	1 22 01	30.202	42.5	38.5	37.0	REMARKS.
Noon	1 21 39	30.212	42.0	35.0	36.0	
14 00 00	1 21 38	30.222	42.0	36.0	35.0	From 14*h*. to 22*h*., examining the adjustments of the instrument.
16 00 00		30.244	45.0	43.5	40.0	
18 00 00		30.230	46.0	50.0	47.0	
20 00 00		30.176	46.0	57.0	51.0	
22 00 00	1 28 13	30.158	47.5	54.0	52.0	

OBSERVATIONS AT WASHINGTON—1842.

FEBRUARY 12, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.		
			Attached.	Air.	Magnetic observatory.
h. m. s.	° ′ ″	*Inches.*	°	°	°
0 00 00		30.142	47.0	49.0	52.0
2 00 00		30.120	48.0	49.0	52.0
4 00 00	1 21 21	30.098	48.0	48.0	51.0
6 00 00	1 21 18	30.072	47.5	48.0	50.0
8 00 00	1 20 34	30.061	47.0	48.0	50.0
10 00 00	1 20 56	30.011	49.0	48.0	50.0
Noon	1 21 41	30.000	50.0	49.0	50.0
14 00 00	1 21 39	30.000	50.0	49.0	50.0
16 00 00	1 23 27	30.072	51.5	51.5	50.0
18 00 00	1 20 30	30.042	51.0	57.5	52.0
20 00 00	1 23 10	30.058	52.0	59.5	54.0
22 00 00	1 29 06	30.074	52.0	58.5	56.0

° ′ ″

Maximum at 22 hours - 1 29 06

Minimum at 18 hours - 1 20 30

Mean - - - 1 24 48

REMARKS.

At 0*h*. and 2*h*., adjusting the instrument.

FEBRUARY 13, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 28 35	30.074	52.0	55.0	54.0
2 00 00	1 27 12	30.120	52.5	51.0	54.0
4 00 00	1 22 18	30.110	52.0	50.0	54.0
6 00 00	1 22 35	30.082	52.0	50.0	52.0
8 00 00	1 22 54	30.038	52.0	49.0	52 0
10 00 00	1 23 02	30.036	52.0	45.0	50.0
Noon	1 32 36	29.942	52.0	44.0	48.0
14 00 00	1 25 31	29.950	52.0	42.0	48.0
16 00 00	1 22 39	29.866	54.0	42.5	46.0
18 00 00	1 24 34	29.762	53.0	43.5	44.0
20 00 00	1 28 14	29.738	53.5	47.5	46.0
22 00 00	1 28 14	29.756	56.0	50.0	46.0

Maximum at 12 hours - 1 32 36

Minimum at 4 hours - 1 22 18

Mean - - - 1 27 27

FEBRUARY 14, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.
0 00 00	1 25 54	29.758	57.0	48.5	48.0
2 00 00	1 25 04	29.776	58.0	47.5	48.0
4 00 00	1 25 04	29.786	55.0	47.5	48.0
6 00 00	1 25 22	29.778	54.5	47.0	46.5
8 00 00	1 25 22	29.756	54.5	47.0	46.0
10 00 00	1 24 27	29.736	54.0	45.5	46.0
Noon	1 24 37	29.736	53.0	44.5	46 0
14 00 00	1 23 42	29.744	54.0	45.0	46.0
16 00 00	1 22 19	29.752	52.0	49.0	48.0
18 00 00	1 26 18	29.730	54.5	50.5	49.0
20 00 00	1 30 57	29.736	53.5	47.5	50.0
22 00 00	1 30 04	29.840	53.5	44.0	48.0

Maximum at 20 hours - 1 30 57

Minimum at 16 hours - 1 22 19

Mean - - - - 1 26 38

FEBRUARY 15, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 56	29.936	51.5	35.5	44.0	Maximum at 20 hours - 1 28 21
2 00 00	1 28 10	30.084	49.0	29.0	39.0	Minimum at 14 hours - 1 23 22
4 00 00	1 27 03	30.144	45.0	25 0	34.0	Mean - - - 1 25 51.5
6 00 00	1 25 32	30.150	44.5	24.0	33.0	
8 00 00	1 24 09	30.200	43.5	23.0	32.0	
10 00 00	1 23 49	30.264	43.0	21.0	28.0	
Noon	1 25 34	30.270	42.0	20.0	26.0	
14 00 00	1 23 22	30.336	42.0	23.0	25.0	
16 00 00	1 23 49	30.368	42.5	27.5	30.0	
18 00 00	1 27 56	30.310	43.5	32.5	33.0	
20 00 00	1 28 21	30.270	43.5	37.5	36.0	
22 00 00	1 27 51	30.210	45.0	37.0	38.0	
FEBRUARY 16, 1842.						
0 00 00	1 27 18	30.210	44.0	33.0	35.0	Maximum at 20 hours - 1 30 48
2 00 00	1 25 35	30.210	43.5	31.5	34.5	Minimum at 16 hours - 1 22 32
4 00 00	1 25 18	30.186	46.5	31.0	34.0	Mean - - - 1 26 40
6 00 00	1 24 30	30.126	44.0	32.0	34.0	
8 00 00	1 23 18	30.061	44.0	32.0	34.0	
10 00 00	1 23 37	29.875	44.0	31.5	33.5	
Noon	1 23 24	29.721	44.0	31.0	33.0	
14 00 00	1 23 24	29.636	44.0	31.0	33.0	
16 00 00	1 22 32	29.487	44.5	34.0	34.0	
18 00 00	1 26 24	29.362	44.0	34.0	34.0	
20 00 00	1 30 48	29.280	44.0	34.0	34.0	
22 00 00	1 29 05	29.244	43.0	34.0	35.0	
FEBRUARY 17, 1842.						
0 00 00	1 26 53	29.270	44.0	34.0	34.0	Maximum at 12 hours - 1 31 53
2 00 00	1 25 40	29 360	45.0	32.0	34.0	Minimum at 16 hours - 1 23 29
4 00 00	1 26 18	29.412	41.0	28.0	32.0	Mean - - - 1 27 41
6 00 00	1 23 39	29.502	39.0	21.0	28.0	
8 00 00	1 23 57	29.628	36.0	18.5	24.0	
10 00 00	1 24 31	29.662	35.0	16.0	24.0	
Noon	1 31 53	29.840	34.0	15.0	22.0	
14 00 00	1 27 57	29.850	32.0	14.0	22.0	
16 00 00	1 23 29	29.936	31.0	16.5	20.0	
18 00 00	1 29 12	29.966	31.0	19.5	24.0	
20 00 00	1 27 09	30.046	32.0	24.0	26.0	
22 00 00	1 26 54	30.056	33.0	27.5	28.0	

OBSERVATIONS AT WASHINGTON—1842.

FEBRUARY 18, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 54	30.076	35.0	24.5	28.0	Maximum at 22 hours - 1 32 21
2 00 00	1 27 07	30.146	34.0	21.5	24.5	Minimum at 14 hours - 1 21 27
4 00 00	1 23 00	30.164	34.0	17.5	20.5	Mean - - - - 1 26 54
6 00 00	1 23 32	30.172	33.0	17.0	20.0	
8 00 00	1 23 32	30.186	33.0	17.0	20.0	
10 00 00	1 23 32	30.236	34.0	18.5	20.0	
Noon	1 23 37	30.236	33.0	23.5	22.0	
14 00 00	1 21 27	30.256	34.0	28.5	24.0	
16 00 00	1 28 01	30.226	35.0	38.0	30.0	
18 00 00	1 29 14	30.162	36.5	40.5	34.0	
20 00 00	1 29 48	30.108	36.5	43.0	36.0	
22 00 00	1 32 21	30.054	37.0	44.0	37.0	
FEBRUARY 19, 1842.						
0 00 00	1 24 47	29.996	39.0	43.0	39.0	Maximum at 14 hours - 1 28 59
2 00 00	1 27 07	29.916	38.5	43.0	39.0	Minimum at 6 hours - 1 22 50
4 00 00	1 24 47	29.844	39.0	47.0	41.0	Mean - - - - 1 25 54.5
6 00 00	1 22 50	29.800	39.0	48.0	43.0	
8 00 00	1 22 51	29.767	39.5	50.0	44.5	
10 00 00	1 24 14	29.668	40.0	45.5	46.0	
Noon	1 25 22	29.604	41.5	44.0	47.0	
14 00 00	1 28 59	29.640	41.5	43.0	46 0	
16 00 00	1 28 28	29.752	43.5	47.5	46.0	
18 00 00	1 28 53	29.836	46.0	44.5	46.5	
20 00 00	1 28 11	29.920	44.0	41.0	46.0	
22 00 00	1 28 11	30.040	45.0	40.0	45.0	
FEBRUARY 20, 1842.						
0 00 00	1 24 26	30.114	46.0	36.0	44.0	Maximum at 20 hours - 1 28 59
2 00 00	1 24 18	30.196	44.5	33.0	40.0	Minimum at 12 hours - 1 23 37
4 00 00	1 24 56	30.286	46.0	31.0	38.0	Mean - - - - 1 26 18
6 00 00	1 25 39	30.328	43.5	30.5	35.0	
8 00 00	1 25 27	30.386	43.0	27.0	33 0	
10 00 00	1 24 34	30.401	42.0	24.0	30.0	
Noon	1 23 37	30.428	41.0	21.5	28.0	
14 00 00	1 24 05	30.490	41.0	23.0	28.0	
16 00 00	1 25 13	30.504	42.0	25.0	30.0	
18 00 00	1 26 10	30.480	42.0	27.0	32.0	
20 00 00	1 28 59	30.432	41.0	32.0	32.0	
22 00 00	1 27 17	30.372	41.0	31.0	32.0	

FEBRUARY 21, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 28 18	30.348	42.0	28.0	32.0	Maximum at 8 hours - 1 28 41
2 00 00	1 21 33	30.334	40 0	25.0	30.0	Minimum at 2 hours - 1 21 33
4 00 00	1 24 55	30.324	40.0	21.5	30.0	Mean - - - - 1 25 07
6 00 00	1 25 54	30.324	40.0	21.0	30.0	
8 00 00	1 28 41	30.300	40.0	20.0	28.0	
10 00 00	1 24 36	30.266	39.0	20.0	28.0	
Noon	1 26 04	30.256	38.0	20.0	26.0	
14 00 00	1 24 09	30.270	39.0	21.0	26.0	
16 00 00	1 25 13	30.218	39.5	30.5	31.0	
18 00 00	1 26 19	30.296	40.0	34.0	36.0	
20 00 00	1 27 52	30.236	43.0	37.0	38.0	
22 00 00	1 27 52	30.154	42.0	38.0	38.0	

FEBRUARY 22, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 52	30.136	45.0	35.5	38.0	Maximum at 20 hours - 1 28 43
2 00 00	1 25 39	30.136	42.0	31.5	36.0	Minimum at 14 hours - 1 23 27
4 00 00	1 23 59	30.156	43.0	27.5	32.5	Mean - - - - 1 26 05
6 00 00	1 25 12	30.138	42.0	25.5	32.0	
8 00 00	1 25 12	30.138	41.0	25.0	30.0	
10 00 00	1 25 12	30.076	40.0	23.0	28.0	
Noon	1 25 12	30.076	40.0	23.0	28.0	
14 00 00	1 23 27	30.076	41.0	25.0	28.0	
16 00 00	1 25 03	30.066	41.0	30.5	32.0	
18 00 00	1 28 00	30.026	43.0	38.0	38.0	
20 00 00	1 28 43	29.998	43.0	41.0	39.0	
22 00 00	1 27 22	30.034	43.0	40.5	39.0	

FEBRUARY 23, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 14	30.086	43.5	36.0	39.0	Maximum at 20 hours - 1 28 40
2 00 00	1 24 34	30.140	42.0	32.5	36.0	Minimum at 16 hours - 1 23 40
4 00 00	1 26 05	30.154	41.0	30.0	34.5	Mean - - - - 1 26 10
6 00 00	1 26 17	30.184	40.5	28.0	32.0	
8 00 00	1 26 13	30.220	40.0	26.0	30.0	
10 00 00	1 25 32	30.228	39.0	22.0	29.0	
Noon	1 24 52	30.232	39.0	24.0	28.0	
14 00 00	1 23 50	30.276	39.0	26.0	28.0	
16 00 00	1 23 40	30.286	40.5	31.0	31.0	
18 00 00	1 26 54	30.256	41.5	35.0	35.0	
20 00 00	1 28 40	30.202	41.0	40.0	38.0	
22 00 00	1 27 18	30.172	43.0	42.0	40.0	

OBSERVATIONS AT WASHINGTON—1842.

FEBRUARY 24, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 42	30.150	43.0	33.0	42.0	Maximum at 22 hours - 1 37 17
2 00 00	1 26 45	30.134	42.0	34.0	38.0	Minimum at 12 hours - 1 21 58
4 00 00	1 26 54	30.186	44.0	33.5	38.0	Mean - - - 1 29 37.5
6 00 00	1 25 00	30.120	42.5	31.0	35.0	
8 00 00	1 23 37	30.138	42.0	31.0	34.0	
10 00 00	1 22 48	30.161	41.5	31.5	33.0	
Noon	1 21 58	30.170	41.0	32.0	32.0	
14 00 00	1 22 04	30.170	41.0	32.0	32.0	
16 00 00	1 24 19	30.164	42.0	39.5	35.0	
18 00 00	1 29 37	30.162	43.0	46.5	39.5	
20 00 00	1 31 34	30.136	45.0	50.5	43.5	
22 00 00	1 37 17	30.122	46.5	51.0	47.0	

FEBRUARY 25, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 29 36	30.118	46.5	48.0	48.0	Maximum at 2 hours - 1 30 57
2 00 00	1 30 57	30.122	45.0	41.5	46.0	Minimum at 4 hours - 1 22 54
4 00 00	1 22 54	30.160	46.0	39.0	44.0	Mean - - - 1 29 55.5
6 00 00	1 25 28	30.160	47.5	37.5	42.0	
8 00 00	1 25 37	30.176	45.5	37.5	41.0	
10 00 00	1 25 07	30.196	45.0	38.5	39.0	
Noon	1 24 54	30.228	45.0	37.0	38.0	
14 00 00	1 24 11	30.284	45.0	35.0	38.0	
16 00 00	1 24 22	30.356	46.5	42.0	40.0	
18 00 00	1 26 27	30.348	47.0	47.0	46.0	
20 00 00	1 28 17	30.314	48.0	50.0	45.0	
22 00 00	1 25 26	30.320	48.0	49.0	45.0	

FEBRUARY 26, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 48	30.264	48.0	46.0	44.0	Maximum at 20 hours - 1 29 27
2 00 00	1 26 26	30.306	47.5	45.0	44.0	Minimum at 16 hours - 1 23 53
4 00 00	1 26 29	30.272	47.0	45.0	49.0	Mean - - - 1 26 40
6 00 00	1 25 42	30.250	48.0	43.0	51.0	
8 00 00	1 27 56	30.216	48.0	42.0	50.0	
10 00 00	1 26 23	30.166	47.0	41.0	50.0	
Noon	1 26 53	30.122	48.0	42.0	51.0	
14 00 00	1 24 51	30.088	47.5	43.0	52.0	
16 00 00	1 23 53	30.046	51.0	41.5	52.0	
18 00 00	1 28 14	30.036	50.0	45.0	52.0	
20 00 00	1 29 27	30.006	50.0	50.5	56.0	
22 00 00	1 26 47	29.986	51.0	53.0	60.0	

FEBRUARY 27, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.				
h. m. s.	° ′ ″	*Inches.*	°	°	°		°	′	″
0 00 00	1 26 15	29.986	54.0	47.0	54.0	Maximum at 20 hours -	1	29	24
2 00 00	1 21 47	29.980	51.0	45.0	50.5	Minimum at 2 hours -	1	21	47
4 00 00	1 24 48	29.966	51.0	43.0	48.0	Mean - - - -	1	25	35.5
6 00 00	1 26 04	29.960	51.0	42.5	46.0				
8 00 00	1 26 04	29.960	51.0	42.0	46.0				
10 00 00	1 24 57	29.956	51.0	42.0	46.0				
Noon	1 23 27	29.966	50.0	41.5	44.0				
14 00 00	1 22 32	29.936	50.0	42.0	44.0				
16 00 00	1 25 26	30.054	52.0	47.0	46.0				
18 00 00	1 28 09	30.066	51.0	49.5	47.0				
20 00 00	1 29 24	30.060	52.0	50.5	50.0				
22 00 00	1 27 09	30.076	51.0	50.5	50.0				

FEBRUARY 28, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.				
0 00 00	1 25 45	30.084	52.0	47.0	50.0	Maximum at 20 hours -	1	29	26
2 00 00	1 25 17	30.114	54.0	43 0	48.0	Minimum at 14 hours -	1	22	57
4 00 00	1 24 01	30.126	53.0	40 5	46.0	Mean - - - -	1	26	11.5
6 00 00	1 25 07	30.138	51.5	37.5	44.0				
8 00 00	1 27 52	30.138	50.0	34.0	40.5				
10 00 00	1 26 13	30.152	50.0	32.0	38.5				
Noon	1 24 39	30.156	50.0	31.5	37.0				
14 00 00	1 22 57	30.200	49.5	32.5	37.0				
16 00 00	1 24 09	30.224	52.0	42.0	41.0				
18 00 00	1 28 21	30.222	52.5	46.5					
20 00 00	1 29 26	30.180	53.0	51.5					
22 00 00	1 27 41	30.166	53.0	52.0					

MARCH 1, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.				
0 00 00	1 25 58	30.170	54.0	49.0	56.0	Maximum at 22 hours -	1	30	28
2 00 00	1 22 45	30.174	52 5	45.5	53.0	Minimum at 14 hours -	1	22	06
4 00 00	1 24 41	30.190	55.0	45.0	51.0	Mean - - - -	1	26	17
6 00 00	1 23 36	30.196	56.0	45.0	50.0				
8 00 00	1 24 49	30.200	57.0	45.0	48.0				
10 00 00	1 23 34	30.196	54.0	44.0	47.0				
Noon	1 23 41	30.196	53.0	44.5	46.0				
14 00 00	1 22 06	30.190	55.0	45.0	46.0				
16 00 00	1 24 37	30.208	56.3	50.0	48.0				
18 00 00	1 27 26	30.128	56.0	53.0	52.0				
20 00 00	1 30 14	30.070	58.0	57.5	58.0				
22 00 00	1 30 28	30.044	58.0	60.0	60.0				

OBSERVATIONS AT WASHINGTON—1842.

MARCH 2, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 47	30.034	55.0	55.0	54.0	Maximum at 22 hours - 1 28 29
2 00 00	1 25 31	30.006	57.0	52.5	56.5	Minimum at 16 hours - 1 23 57
4 00 00	1 25 41	29.974	56.5	52.5	55.5	Mean - - - - 1 26 13
6 00 00	1 25 30	29.920	57.0	51.5	55.0	
8 00 00	1 25 52	29.884	58.0	52.0	54.5	
10 00 00	1 24 56	29.834	59.0	53.0	54.0	
Noon	1 24 48	29.820	57.5	54.0	55.0	
14 00 00	1 27 03	29.798	60.0	56.0	55.5	
16 00 00	1 23 57	29.716	61.0	62.0	57.0	
18 00 00	1 26 22	29.658	63.0	65.0	60.0	
20 00 00	1 27 45	29.556	66.0	69.5	63.0	
22 00 00	1 28 29	29.540	66.0	69.0	64.5	

MARCH 3, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 27	29.540	65.0	64.5	64.0	Maximum at 8 hours - 1 35 44
2 00 00	1 27 49	29.594	63.0	62.0	64.0	Minimum at 14 hours - 1 23 00
4 00 00	1 25 32	29.622	63.0	59.0	61.8	Mean - - - - 1 29 22
6 00 00	1 24 07	29.696	64.5	56.0	62.0	
8 00 00	1 35 44	29.708	64.0	56.0	62.0	
10 00 00	1 23 41	29.804	62.0	56.0	60.0	
Noon	1 25 39	29.760	62.0	52 0	58.0	
14 00 00	1 23 00	29.908	62.0	54.0	54.0	
16 00 00	1 23 48	29.910	64.5	61.5	59.0	
18 00 00	1 27 57	29.908	66.5	69.0	64.0	
20 00 00	1 28 40	29.886	67.5	73.0	68.5	
22 00 00	1 28 06	29.872	69.5	73.5	72.0	

MARCH 4, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 10	29.874	68.5	68.5	71.0	Maximum at 22 hours - 1 28 44
2 00 00	1 25 38	29.864	66.5	62.0	68.0	Minimum at 8 hours - 1 23 02
4 00 00	1 24 34	29.865	68.0	61.0	66.0	Mean - - - - 1 25 53
6 00 00	1 26 25	29.874	66.5	61.0	65.0	
8 00 00	1 23 02	29.873	65.5	59.5	64.0	
10 00 00	1 24 34	29.864	65.0	58.5	62.5	
Noon	1 25 12	29.872	65.0	57.5	62.0	
14 00 00	1 23 52	29.881	64.5	62.5	62.0	
16 00 00	1 24 48	29.896	66.0	66.0	64.0	
18 00 00	1 28 21	29.892	68.0	74.0	68 0	
20 00 00	1 27 53	29.832	69.0	76.0	72.0	
22 00 00	1 28 44	29.792	70.0	76.0	74.0	

MARCH 5, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 29 07	29.768	70.0	71.0	70.0	Maximum at 18 hours - 1 29 31
2 00 00						Minimum at 14 hours - 1 22 02
4 00 00	1 24 35	29.746	70.5	68.0	70.0	Mean - - - 1 25 46.5
6 00 00	1 24 38	29.718	70.0	64.0	69 0	
8 00 00	1 26 08	29.690	69.5	61.0	67.0	
10 00 00	1 22 45	29.726	69.5	60.0	65.5	
Noon	1 24 55	29 732	69.5	58.5	64.0	
14 00 00	1 22 02	29.772	64.5	60.5	62.5	
16 00 00	1 24 15	29.862	68.0	68.0	66.0	
18 00 00	1 29 31	29.870	69.5	72.0	70.0	
20 00 00	1 27 26	29.878	70.0	75.0	78.0	
22 00 00	1 25 35	29.888	70.5	75.5	74.0	

MARCH 6, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 28 27	29.916	70.0	72.5	74.0	Maximum at 0 hours - 1 28 27
2 00 00	1 24 54	30.036	69.5	63.0	70.0	Minimum at 8 hours - 1 22 27
4 00 00	1 23 20	30.036	71.0	63.0	68.0	Mean - - - 1 25 27
6 00 00	1 23 54	30.048	69.0	51.0	62.0	
8 00 00	1 22 27	30.072	68.0	50.0	60.0	
10 00 00	1 22 57	30.086	67.0	46.0	56.0	
Noon	1 22 41	30.100	66.0	46.0	54.0	
14 00 00	1 25 09	30.160	67.0	46.0	52.0	
16 00 00	1 24 49	30.170	64.0	48.5	52.0	
18 00 00	1 26 08	30.144	66.5	50.5	52.0	
20 00 00	1 27 43	30.142	66.0	50.5	52.5	
22 00 00	1 27 13	30.120	66.0	50.5	52.5	

MARCH 7, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 26 19	30.100	67.0	48.5	52.0	Maximum at 20 hours - 1 29 39
2 00 00	1 24 50	30.110	64.0	48.0	51.0	Minimum at 14 hours - 1 24 34
4 00 00	1 25 49	30.120	65.0	48.0	51.0	Mean - - - 1 27 06.5
6 00 00	1 24 50	30.068	66.0	48.0	50.0	
8 00 00	1 25 18	30.026	66.0	48.0	50.0	
10 00 00		30.008	66.0	48.0	50.0	
Noon	1 25 03	30.008	65.0	48.0	49.5	
14 00 00	1 24 34	30.012	64.0	48.0	49.0	
16 00 00	1 25 49	29 976	63.0	48.0	50.0	
18 00 00	1 29 19	30.020	62.5	51.0	50.0	
20 00 00	1 29 39	30.016	62.0	51.0	52.0	
22 00 00	1 27 33	30.092	62.0	48.0	51.0	

MARCH 8, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 26 30	30.178	62.0	45.0	50.0	Maximum at 18 hours - 1 29 24
2 00 00	1 22 23	30.190	60.5	43.0	48.0	Minimum at 2 hours - 1 22 23
4 00 00	1 24 40	30.238	61.0	42.0	46.0	Mean - - - 1 25 53
6 00 00	1 26 02	30.272	59.5	39.0	44.0	
8 00 00	1 25 14	30.328	59.5	37.5	43.5	
10 00 00	1 26 08	30.366	58.0	35.5	42.0	
Noon	1 24 39	30.440	56.5	33.5	40.5	
14 00 00	1 22 48	30.472	58.0	35.5	40.0	
16 00 00	1 25 26	30.528	57.0	42.0	43.0	
18 00 00	1 29 24	30.526	57.5	44.5	46.0	
20 00 00	1 28 32	30.474	58.5	47.5	50.0	
22 00 00	1 26 47	30.458	57.0	49.5	52.0	

MARCH 9, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 25 28	30.458	57.0	46.5	50.0	Maximum at 20 hours - 1 30 01
2 00 00	1 26 20	30.458	56.0	42.0	50.0	Minimum at 14 hours - 1 22 14
4 00 00	1 25 26	30.436	55.0	41.0	48.0	Mean - - - 1 26 07.5
6 00 00	1 25 57	30.386	55.0	42.0	46.0	
8 00 00	1 25 25	30.358	54.0	41.0	44.0	
10 00 00	1 24 48	30.250	54.0	41.0	44.0	
Noon	1 23 35	30.246	53.0	40.0	44.0	
14 00 00	1 22 14	30.154	54.0	45.0	44.0	
16 00 00	1 24 40	30.092	52.0	43.0	44.0	
18 00 00	1 29 39	30.054	53.0	45.0	44.0	
20 00 00	1 30 01	29.904	57.5	52.5	45.5	
22 00 00	1 26 38	29.824	59.0	59.5	50.0	

MARCH 10, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 26 06	29.802	58.5	55.0	52.5	Maximum at 20 hours - 1 28 52
2 00 00	1 25 22	29.770	59.0	53.5	52.0	Minimum at 16 hours - 1 21 28
4 00 00	1 24 28	29.749	59.0	54.5	52.5	Mean - - - 1 25 10
6 00 00	1 24 21	29.770	60.5	53.0	53.0	
8 00 00	1 25 29	29.789	60.0	53.5	53.0	
10 00 00	1 24 37	29.811	59.5	53.5	53.5	
Noon	1 23 22	29.829	59.0	53.0	53.5	
14 00 00	1 22 46	29.858	58.0	53.0	53.0	
16 00 00	1 21 28	29.916	60.0	59.5	56.0	
18 00 00	1 28 38	29.926	61.0	64.0	58.0	
20 00 00	1 28 52	29.912	61.0	63.0	58.0	
22 00 00	1 26 55	29.968	61.0	60.0	58.0	

MARCH 11, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 08	29.770	61.0	60.5	60.0	Maximum at 20 hours - 1 30 28
2 00 00	1 25 45	29.876	60.5	58.0	60 0	Minimum at 14 hours - 1 23 13
4 00 00	1 25 35	29.890	60.5	57.0	58.0	Mean - - - 1 26 50.5
6 00 00	1 25 52	29.788	60.0	56.5	58.0	
8 00 00	1 26 03	29.770	61.5	56.0	57.0	
10 00 00	1 25 26	29.724	62.0	55.5	57.5	
Noon	1 25 09	29.716	61.5	55.0	57.5	
14 00 00	1 23 13	29.740	62.0	56.0	57.0	
16 00 00	1 23 23	29.748	62.5	61.5	58.0	
18 00 00	1 29 17	29.768	63.0	63.0	59.0	
20 00 00	1 30 28	29.798	63.0	61.0	61.0	
22 00 00	1 28 26	29.926	61.5	54.5	60.0	

MARCH 12, 1842.

0 00 00	1 25 36	30.042	60.0	47.0	47.5	Maximum at 20 hours - 1 30 40
2 00 00	1 25 22	30.148	56.0	40.0	46.0	Minimum at 14 hours - 1 22 13
4 00 00	1 25 41	30.230	55.0	33.0	42.0	Mean - - - 1 26 26.5
6 00 00	1 25 01	30.318	55.0	33.0	42.0	
8 00 00	1 24 29	30.386	51.0	31.0	40.0	
10 00 00	1 24 49	30.478	50.0	28.5	38.0	
Noon	1 23 48	30.572	49.5	27.5	32.0	
14 00 00	1 22 13	30.566	50.0	27.0	34.0	
16 00 00	1 24 25	30.586	49.5	30.0	36.0	
18 00 00	1 29 45	30.586	52.0	35.0	39.5	
20 00 00	1 30 40	30.534	55.0	35.5	43.0	
22 00 00	1 28 13	30.492	55.0	39.0	44.0	

MARCH 13, 1842.

0 00 00	1 27 24	30.464	55.0	36.0	43.0	Maximum at 18 hours - 1 31 26
2 00 00	1 25 57	30.438	54.0	31.0	39.0	Minimum at 14 hours - 1 21 49
4 00 00	1 26 03	30.419	54.0	31.5	37.0	Mean - - - 1 26 37.5
6 00 00	1 26 37	30.399	54.5	32.5	36.0	
8 00 00	1 26 37	30.381	54.5	32.5	35.0	
10 00 00	1 24 28	30.341	52.0	33.0	35.0	
Noon	1 22 54	30.271	50.0	35.0	35.5	
14 00 00	1 21 49	30.268	49.0	36.5	36.0	
16 00 00	1 24 59	30.250	49.0	45.0	40.0	
18 00 00	1 31 26	30.248	52.0	48.0	46.0	
20 00 00	1 26 55	30.216	51.0	53.0	50.0	
22 00 00	1 29 04	30.212	51.0	51.0	50.0	

MARCH 14, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 28 28	30.230	52.0	47.0	50.0	Maximum at 20 hours - 1 30 42
2 00 00	1 26 32	30.252	52.5	46.0	48.0	Minimum at 14 hours - 1 23 00
4 00 00	1 26 03	30.252	52.0	44.5	47.5	Mean - - - 1 26 51
6 00 00	1 24 26	30.268	51.0	43.0	46.0	
8 00 00	1 25 37	30.244	51.5	43.0	46.0	
10 00 00	1 24 41	30.252	51.0	41.0	45.0	
Noon	1 23 57	30.252	51.0	40 5	45.0	
14 00 00	1 23 00	30.274	52.5	41 5	45.0	
16 00 00	1 23 35	30.278	52.0	42.0	44.0	
18 00 00	1 27 40	30.256	52.5	40.0	44.0	
20 00 00	1 30 42	30.248	52.5	41.5	43.0	
22 00 00	1 28 28	30.242	53.0	42.0	43.0	

MARCH 15, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 26 34	30.246	53.5	42.0	43 0	Maximum at 22 hours - 1 33 10
2 00 00	1 25 49	30.282	51.0	40.0	42.0	Minimum at 14 hours - 1 21 24
4 00 00	1 23 22	30.286	51.0	36.0	40.0	Mean - - - 1 27 17
6 00 00	1 25 37	30.286	51.0	34.0	40.0	
8 00 00	1 25 49	30.260	50.0	34.0	40.0	
10 00 00	1 25 30	30.248	50.0	32.0	38.0	
Noon	1 23 29	30.286	48.0	32.0	38.0	
14 00 00	1 21 24	30 268	48.0	37.0	38.0	
16 00 00	1 23 03	30.230	50.5	48.5	43.0	
18 00 00	1 27 01	30.234	51.5	50.5	45.5	
20 00 00	1 31 11	30.226	50.8	40.5	47.8	
22 00 00	1 33 10	30.252	53.0	46.0	48.0	

MARCH 16, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 32 55	30.290	53.3	45.5	48.0	Maximum at 22 hours - 1 34 00
2 00 00	1 25 54	30.308	52.0	41.0	44.0	Minimum at 16 hours - 1 19 43
4 00 00	1 24 39	30.321	51.5	37.0	42.0	Mean - - - 1 26 51.5
6 00 00	1 25 49	30.348	51.0	33.0	40.0	
8 00 00	1 26 34	30.357	51.0	32.5	39.5	
10 00 00	1 24 50	30.399	50.0	33.0	38.0	
Noon	1 22 47	30.421	47.5	34.0	37.0	
14 00 00	1 20 22	30.460	48.5	34.5	36.0	
16 00 00	1 19 43	30.498	50.0	38.0	42.0	
18 00 00	1 27 05	30.450	50.0	47.0	48.0	
20 00 00	1 33 37	30.386	50.0	55.0	52.7	
22 00 00	1 34 00	30.322	52.0	55.0	52.0	

MARCH 17, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 23 43	30.270	52.0	52.0	52.0	Maximum at 20 hours - 1 30 05
2 00 00	1 20 36	30.258	54.0	47.0	51.0	Minimum at 10 hours - 1 19 11
4 00 00	1 21 08	30.210	53.0	45.0	50.0	Mean - - - 1 24 38
6 00 00	1 26 30	30.170	51.5	45.0	49.0	
8 00 00	1 28 09	30.158	51.0	44.0	48.0	
10 00 00	1 19 11	30.136	51.0	43.0	48.0	
Noon	1 24 00	30.128	52.0	44.0	48.0	
14 00 00	1 22 03	30.124	52.0	51.0	48.0	
16 00 00	1 22 17	30.086	54.0	56.0	51.0	
18 00 00	1 26 14	30.019	54.0	66.5	55.0	
20 00 00	1 30 05	29.976	57.0	68.0	60.0	
22 00 00	1 27 52	29.932	57 0	69.0	64.0	

MARCH 18, 1842.

0 00 00	1 27 39	29.932	57.0	62.0	63.0	Maximum at 20 hours - 1 28 08
2 00 00	1 25 34	29.980	57.5	56.0	60.0	Minimum at 14 hours - 1 21 28
4 00 00	1 26 00	30.024	57.0	58.0	60.0	Mean - - - 1 24 48
6 00 00	1 24 48	30.080	56.5	58.0	59.0	
8 00 00	1 23 59	30.132	56.0	57.0	57.5	
10 00 00	1 23 13	30.178	56.0	54.0	56.0	
Noon	1 24 54	30.212	56.0	52.0	55.0	
14 00 00	1 21 36	30.270	56.0	53.0	54.0	
16 00 00	1 21 40	30.286	57.0	58.5	54.0	
18 00 00	1 28 06	30.260	56.8	63.0	59.5	
20 00 00	1 28 08	30.240	58.0	66.0	64.0	
22 00 00	1 27 52	30.206	59.0	67.5	64.0	

MARCH 19, 1842.

0 00 00	1 25 29	30.176	59.0	62.0	64.0	Maximum at 20 hours - 1 31 30
2 00 00	1 25 29	30.166	59 0	58.0	62.0	Minimum at 12 hours - 1 22 02
4 00 00	1 25 02	30.144	62.0	55.0	58.0	Mean - - - 1 26 46
6 00 00	1 24 02	30.156	63.0	58.0	58.0	
8 00 00	1 24 02	30.156	63.0	52.0	56.0	
10 00 00	1 23 37	30.142	60.0	50.0	56.0	
Noon	1 22 02	30.136	60.0	46.5	52.0	
14 00 00	1 24 34	30.166	60.0	47.0	50.0	
16 00 00	1 23 28	30.102	59.0	55.0	52.0	
18 00 00	1 28 26	30.058	62.0	69.0	61.0	
20 00 00	1 31 30	30.001	64.0	79.5	70.0	
22 00 00	1 29 46	29.972	66.0	82.0	74.0	

OBSERVATIONS AT WASHINGTON—1842.

MARCH 20, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 42	29.965	66.0	78.0	70.0	Maximum at 18 hours - 1 29 37
2 00 00	1 26 00	30.016	67.0	72.0	72.0	Minimum at 14 hours - 1 23 22
4 00 00	1 24 42	30.036	69.0	66.0	70.0	Mean - - - 1 26 29.5
6 00 00	1 25 49	30.026	70.0	59.0	65.0	
8 00 00	1 24 58	30.031	69.5	60.5	64.0	
10 00 00	1 24 30	30.040	68.0	61.0	63.0	
Noon	1 23 43	30.056	67.0	61.0	60.0	
14 00 00	1 23 22	30.056	67.0	61.5	60.0	
16 00 00	1 25 19	30.086	67.0	68.0	68.0	
18 00 00	1 29 37	30.036	70.0	72.5	70.0	
20 00 00	1 29 27	29.986	70.0	77.5	74.0	
22 00 00	1 28 48	29.928	72.0	80.5	76.0	

MARCH 21, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 27	29.806	72.0	75.0	76.0	Maximum at 20 hours - 1 29 01
2 00 00	1 26 33	29.926	69.0	68.0	72.0	Minimum at 14 hours - 1 21 39
4 00 00	1 25 25	29.970	68.0	64.0	70.0	Mean - - - 1 25 20
6 00 00	1 23 29	30.022	68.0	60.0	68.0	
8 00 00	1 25 12	30.036	71.0	57.0	64.0	
10 00 00	1 24 24	30.136	70.0	50.0	60.0	
Noon	1 23 47	30.186	68.0	47.0	58.0	
14 00 00	1 21 39	30.208	69.0	48.0	54.0	
16 00 00	1 24 04	30.196	65.0	52.5	54.0	
18 00 00	1 27 30	30.178	66.0	51.5	54.0	
20 00 00	1 29 01	30.132	65.5	52.0	54.0	
22 00 00	1 27 38	30.104	64.0	47.5	52.0	

MARCH 22, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 30	30.080	63.5	44.5	52.0	Maximum at 18 hours - 1 29 44
2 00 00	1 25 12	30.066	63.0	34.5	48.0	Minimum at 14 hours - 1 22 43
4 00 00	1 25 44	30.080	63.0	39.5	46.0	Mean - - - 1 26 13.5
6 00 00	1 24 36	30.036	62.0	38.5	45.0	
8 00 00	1 24 18	30.000	62.0	38.0	44.0	
10 00 00	1 23 36	29.946	61.0	38.0	44.0	REMARKS.
Noon	1 24 01	29.970	59.0	38.0	44.0	
14 00 00	1 22 43	30.016	59.0	38.5	42.0	Temperature of the air probably noted 5° too low at 2*h*.
16 00 00	1 23 37	30.056	59.5	47.0	44.0	
18 00 00	1 29 44	30.046	61.0	50.0	46.0	
20 00 00	1 29 34	30.040	61.0	51.0	48.0	
22 00 00	1 26 29	30.056	61.0	49.0	50.0	

MARCH 23, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 25 57	30.078	60.0	46.0	48.0	Maximum at 20 hours - 1 29 27
2 00 00	1 25 57	30.186	58.0	43.5	46.0	Minimum at 14 hours - 1 20 02
4 00 00	1 25 09	30.186	56.0	42.0	44.0	Mean - - - 1 24 44.5
6 00 00	1 21 47	30.188	55 0	41.5	44.0	
8 00 00	1 22 42	30.156	55.0	40.5	42.5	
10 00 00	1 22 47	30.156	55.0	40.0	42.0	
Noon	1 25 59	30.200	54.0	39.0	42.0	
14 00 00	1 20 02	30.256	54.0	40.0	42.0	
16 00 00	1 24 19	30.270	55.0	44.0	44.0	
18 00 00	1 29 02	30.270	55.0	46.5	44.5	
20 00 00	1 29 27	30.222	56.0	47.5	47.0	
22 00 00	1 28 48	30.232	56.0	45.5	48.5	

MARCH 24, 1842.

0 00 00	1 25 01	30.238	55.0	42.0	53.0	Maximum at 14 hours - 1 29 38
2 00 00	1 22 12	30.284	54.8	40.8	53.0	Minimum at 2 hours - 1 22 12
4 00 00	1 23 57	30.266	56.5	40.5	53 0	Mean - - - 1 25 55
6 00 00	1 22 51	30.264	56.5	39.5	53.0	
8 00 00	1 25 24	30.272	57.0	39.5	54.0	
10 00 00	1 23 20	30.281	56.0	39.0	58.0	
Noon	1 24 50	30.290	54.0	39.0	56.0	
14 00 00	1 29 38	30.292	51.0	41.0	56.0	
16 00 00	1 22 37	30.302	53.0	43.5	53.0	
18 00 00	1 28 10	30.286	53.0	44.5	56.0	
20 00 00	1 28 23	30.260	56.0	43.5	54.0	
22 00 00	1 24 55	30.213	54.5	41.0	55.0	

MARCH 25, 1842.

0 00 00	1 19 42	30.182	54.0	40.0	50.0	Maximum at 20 hours - 1 29 34
2 00 00	1 21 10	30.156	53.5	40.0	46.0	Minimum at 0 hours - 1 19 42
4 00 00	1 22 59	30.136	53.5	38.0	44.0	Mean - - - 1 24 38
6 00 00	1 23 59	30.136	54.0	39.0	44.0	
8 00 00	1 25 07	30.004	54.0	39.5	44.0	
10 00 00	1 26 22	29.936	52.5	40.0	43.0	
Noon	1 21 31	29.900	52.0	40.0	44.0	
14 00 00	1 19 45	29.978	53.0	40.5	43.0	
16 00 00	1 24 02	29.836	53.0	45.0	44.0	
18 00 00	1 27 12	29.758	52.5	48.5	46.0	
20 00 00	1 29 34	29.712	54.5	50.5	47.0	
22 00 00	1 26 12	29.700	54.0	47.5	48.0	

OBSERVATIONS AT WASHINGTON—1842.

MARCH 26, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 23 48	29.722	56.0	47.5	48.0	Maximum at 20 hours - 1 27 58
2 00 00	1 22 44	29.812	54.0	47.0	48.0	Minimum at 14 hours - 1 18 54
4 00 00	1 22 44	29.840	54.0	46.0	47.0	Mean - - - - 1 23 26
6 00 00	1 24 12	29 848	53.5	43.0	46.0	
8 00 00	1 25 21	29.856	53.0	42.5	45.0	
10 00 00	1 23 31	29.886	53.0	40.0	44.0	
Noon	1 22 41	29.916	52.5	42.0	43.0	
14 00 00	1 18 54	29.986	53.0	50.0	46.0	
16 00 00	1 21 37	30.056	54.0	51.0	48.0	
18 00 00	1 25 52	30.136	53.0	51.0	48.0	
20 00 00	1 27 58	30.156	53.0	51.5	50.0	
22 00 00	1 25 39	30.176	54.0	49.0	50.0	

MARCH 27, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 23 37	30.236	55.5	45.5	48.0	Maximum at 20 hours - 1 30 29
2 00 00	1 23 16	30.286	53.0	41.5	46.0	Minimum at 14 hours - 1 18 02
4 00 00	1 23 17	30.288	54.0	40.5	44.0	Mean - - - - 1 24 15.5
6 00 00	1 22 44	30.366	55.0	39.5	42.0	
8 00 00	1 23 14	30.366	55.0	38.0	42.0	
10 00 00	1 22 44	30.370	52.0	36.0	40.0	
Noon	1 21 39	30.372	51.0	37.5	38.0	
14 00 00	1 18 02	30.372	51.0	42 5	40.0	
16 00 00	1 21 27	30.356	53.0	49.0	47.0	
18 00 00	1 27 44	30.298	55.0	52 5	51.0	
20 00 00	1 30 29	30.200	56.5	56.5	54.0	
22 00 00	1 26 49	30.112	56.0	60.0	56.0	

MARCH 28, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 26 03	30.065	58.0	57.0	56.0	Maximum at 20 hours - 1 30 13
2 00 00	1 22 52	30.086	56.0	50.0	54.0	Minimum at 10 hours - 1 19 49
4 00 00	1 24 34	30.084	57.0	49.0	52.0	Mean - - - - 1 25 01
6 00 00	1 19 57	30.076	59.0	49.0	52.0	
8 00 00	1 20 52	30.072	60.0	54.5	51.0	
10 00 00	1 19 49	30.098	59.0	53.0	51.0	
Noon	1 20 28	30.131	56.0	50.0	50.0	
14 00 00	1 20 47	30.162	55.0	50.0	50.0	
16 00 00	1 23 18	30.196	54.5	51.5	51.5	
18 00 00	1 27 59	30.188	56.0	54.0	54.0	
20 00 00	1 30 13	30.182	56.0	57.0	56.0	
22 00 00	1 29 05	30.186	57.5	58.7	57.0	

MARCH 29, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 24 23	30.224	58.0	57.0	57.0	Maximum at 20 hours - 1 30 04
2 00 00	1 24 11	30.304	56.0	50.5	53.5	Minimum at 14 hours - 1 19 40
4 00 00	1 21 52	30.376	56.5	47.0	51.0	Mean - - - - 1 24 52
6 00 00	1 23 47	30.422	57.0	41.0	48.0	
8 00 00	1 23 55	30.434	55.5	35.5	44.0	
10 00 00	1 23 26	30.442	54.5	32.5	41.0	
Noon	1 24 04	30.486	53.5	29.5	38.0	
14 00 00	1 19 40	30.500	55.0	35.5	39.5	
16 00 00	1 20 31	30.480	57.0	43.0	44.0	
18 00 00	1 23 34	30.436	58.0	47.0	48.0	
20 00 00	1 30 04	30.356	58.0	54.0	52.0	
22 00 00	1 29 02	30.286	58.0	57.0	54.0	

MARCH 30, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 25 18	30.248	58.0	53.0	54.0	Maximum at 20 hours - 1 31 10
2 00 00	1 22 25	30.228	57.0	48.0	52.0	Minimum at 4 hours - 1 19 17
4 00 00	1 19 17	30.186	56.0	46.0	50.0	Mean - - - - 1 25 13.5
6 00 00	1 20 12	30.136	55.0	49.0	50.0	
8 00 00	1 21 50	30.036	55.0	47.0	50.0	
10 00 00	1 23 34	29.996	55.0	48.0	50.0	
Noon	1 21 20	29.954	55.0	50.0	50.0	
14 00 00	1 23 09	29.930	57.0	54.0	52.0	
16 00 00	1 21 13	29.862	57.5	63.5	56.0	
18 00 00	1 29 59	29.816	60.0	72.0	61.0	
20 00 00	1 31 10	29.736	62.0	75.0	67.0	
22 00 00	1 27 02	29.726	60.8	70.0	68.0	

MARCH 31, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 25 18	29.796	61.5	71.0	68.0	Maximum at 20 hours - 1 28 27
2 00 00	1 25 39	29.820	62.0	67.0	68.0	Minimum at 16 hours - 1 18 32
4 00 00	1 19 59	29.878	61.5	62.0	65.0	Mean - - - - 1 23 29.5
6 00 00	1 24 47	29.914	61.0	55.0	62.0	
8 00 00	1 25 24	29.942	61.0	54.0	60.0	
10 00 00	1 25 07	30.002	59.5	52.0	56.0	
Noon	1 22 08	30.026	59.0	50.0	54.0	
14 00 00	1 20 17	30.052	59.0	50.0	53.0	
16 00 00	1 18 32	30.136	59.0	52.0	54.0	
18 00 00	1 25 24	30.086	59.5	54.5	56.0	
20 00 00	1 28 27	30.081	59.5	56.0	57.0	
22 00 00	1 27 27	30.156	60.0	55.5	56.5	

OBSERVATIONS AT WASHINGTON—1842.

APRIL 1, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 25 17	30.186	61.0	51.0	54.0	Maximum at 20 hours - 1 27 54
2 00 00	1 23 14	30.256	58.0	45.0	50.0	Minimum at 14 hours - 1 17 14
4 00 00	1 22 27	30.356	57.0	41.5	48.0	Mean - - - 1 22 34
6 00 00	1 23 17	30.386	56.0	37.5	44.0	
8 00 00	1 22 27	30.386	54.0	35.0	42.0	
10 00 00	1 23 04	30.446	54.0	32.0	38.0	
Noon	1 19 12	30.482	54.0	30.0	36.0	
14 00 00	1 17 14	30.482	54.0	36.0	38.0	
16 00 00	1 24 10	30.510	53.0	40.0	42.0	
18 00 00	1 25 39	30.496	54.5	44.0	46.0	
20 00 00	1 27 54	30.448	54.0	47.0	49.5	
22 00 00		30.410	55.0	50.0	51.0	

APRIL 2, 1842.

0 00 00	1 25 59	30.410	58.0	49.5	52.0	Maximum at 22 hours - 1 27 56
2 00 00	1 24 08	30.390	55.0	42.5	49.0	Minimum at 14 hours - 1 21 12
4 00 00	1 22 56	30.392	57.5	39.0	48.0	Mean - - - 1 24 34
6 00 00	1 24 30	30.378	57.0	40.0	46.0	
8 00 00	1 25 56	30.352	57.0	41.0	44.0	
10 00 00	1 23 55	30.328	54.0	41.5	44.0	
Noon	1 23 08	30.328	54.0	45.0	44.0	
14 00 00	1 21 12	30.336	53.5	48.0	45.0	
16 00 00	1 21 58	30.302	57.0	56.5	51.0	
18 00 00	1 25 29	30.264	58.0	64.5	60.0	
20 00 00	1 27 50	30.194	60.0	71.0	64.0	
22 00 00	1 27 56	30.162	60.5	72.5	66.0	

APRIL 3, 1842.

0 00 00	1 27 28	30.144	60.0	67.0	66.5	Maximum at 20 hours - 1 30 07
2 00 00	1 24 26	30.172	60.5	63.5	65.0	Minimum at 16 hours - 1 19 37
4 00 00	1 22 57	30.184	61.0	59.0	62.0	Mean - - - 1 24 52
6 00 00	1 22 06	30.174	60.5	56.5	60.0	
8 00 00		30.162	60.0	54.0	58.0	
10 00 00	1 22 13	30.162	61.5	54.0	57.0	
Noon	1 22 10	30.176	60.0	54.0	56.0	
14 00 00	1 20 31	30.178	61.5	59.5	57.5	
16 00 00	1 19 37	30.170	63.0	63.5	63.0	
18 00 00	1 26 25	30.136	68.0	77.0	68.0	
20 00 00	1 30 07	30.106	66.0	83.0	68.0	
22 00 00	1 29 27	30.062	67.0	78.0	74.0	

APRIL 4, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 28 17	30.044	68.0	73.0	72.0	Maximum at 18 hours - 1 28 49
2 00 00	1 25 42	30.072	66.0	68.0	70.0	Minimum at 12 hours - 1 19 28
4 00 00	1 24 05	30.062	64.0	65.0	70.0	Mean - - - - 1 24 05
6 00 00	1 24 07	30.062	64.0	63.5	68.0	
8 00 00	1 21 57	29.955	64.0	61.0	64.0	
10 00 00	1 23 37	29.955	64.0	61.0	64.0	
Noon	1 19 28	30.086	65.0	56.0	62.0	
14 00 00	1 22 17	30.086	65.0	56.0	60.0	
16 00 00	1 22 11	30.104	65.0	57.5	60.0	
18 00 00	1 28 42	30.104	65.5	60.0	60.0	
20 00 00	1 27 47	30.084	65.0	57.5	60.0	
22 00 00	1 27 22	30.108	65.0	51.5	58.0	
APRIL 5, 1842.						
0 00 00	1 26 37	30.108	65.0	48.0	58.0	Maximum at 20 hours - 1 29 04
2 00 00	1 25 17	30.120	64.0	46.0	52.0	Minimum at 14 hours - 1 19 09
4 00 00	1 24 37	30.120	64.0	46.0	51.0	Mean - - - - 1 24 06.5
6 00 00	1 23 42	30.086	63.5	46.0	50.0	
8 00 00	1 23 10	30.072	63.0	45.0	49.0	
10 00 00	1 23 10	30.072	62.0	44.0	48.5	
Noon	1 22 44	30,070	61.5	48.5	48.0	
14 00 00	1 19 09	30 086	61.0	46.0	47.5	
16 00 00	1 21 39	30.122	62.0	51.5	49.0	
18 00 00	1 28 42	30.122	62.5	60.0	51 0	
20 00 00	1 29 04	30.092	64.0	60.5	56.0	
22 00 00	1 27 20	30.080	64.0	65.0	60.0	
APRIL 6, 1842.						
0 00 00	1 25 00	30.124	64.5	61.5	60.0	Maximum at 20 hours - 1 30 51
2 00 00	1 23 52	30.182	64.0	54.0	58.0	Minimum at 10 hours - 1 20 44
4 00 00	1 23 06	30.211	63.0	49.0	54.0	Mean - - - - 1 25 47.5
6 00 00	1 20 58	30.246	62.0	45.0	52.0	
8 00 00	1 20 58	30.253	63.0	44.0	50.0	
10 00 00	1 20 44	30.268	64.0	42.0	48.0	
Noon	1 21 42	30.318	62.5	41.4	46.5	
14 00 00	1 21 28	30.346	61.0	48.3	48.2	
16 00 00	1 22 34	30.331	62.5	57.5	53.0	
18 00 00	1 26 59	30.294	63.0	64 0	58.0	
20 00 00	1 30 51	30.220	63.5	67.0	62.0	
22 00 00	1 28 54	30.162	64.3	68.4	64.3	

OBSERVATIONS AT WASHINGTON—1842.

APRIL 7, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 25 32	30.158	64.0	64.0	64.5	Maximum at hours -
2 00 00	1 27 38	30.166	63.5	58.0	63.0	Minimum at hours -
4 00 00	1 27 29	30.112	64.5	56.3	60.2	Mean - - - -
6 00 00	1 27 18	30.072	64.5	55.0	58.2	
8 00 00	1 26 20	30.010	64.5	54.0	57.5	
10 00 00	1 26 17	29.974	64.8	54.0	57.0	REMARKS.
Noon	1 26 29	29.942	64.5	53.8	56.8	
14 00 00	1 24 25	29.918	64.5	57.5	57.5	Adjusting instrument from 16h. to 21h.
16 00 00		29.966	65.0	67.0		
18 00 00		29.814	66.0	72.0		
20 00 00		29.744	67.0	80.0	73.0	
22 00 00	1 29 58	29.708	68.0	83.0	74.0	

APRIL 8, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 26 57	29.706	68.0	77.0	76.0	Maximum at 20 hours - 1 31 11
2 00 00	1 29 43	29.708	67.5	73.0	76.0	Minimum at 14 hours - 1 22 33
4 00 00	1 27 28	29.708	67.0	63.5	70.0	Mean - - - 1 26 52
6 00 00	1 27 55	29.716	67.0	59.0	66.0	
8 00 00	1 22 29	29.716	67.0	56.0	64.0	
10 00 00	1 24 16	29.718	67.0	56.0	62.0	REMARKS.
Noon	1 23 33	29.720	66.0	54.0	60.0	
14 00 00	1 22 33	29.824	67.0	56.0	60.0	Instrument out of meridian at 18h.
16 00 00	1 24 15	29.846	67.5	60.5	60.0	
18 00 00		29.816	68.5	64.5	61.0	
20 00 00	1 31 11	29.758	68.0	60.5	62.0	
22 00 00	1 30 48	29.742	68.0	56.0	62.0	

APRIL 9, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 29 06	29.786	66.5	53.0	60.0	Maximum at 20 hours - 1 33 38
2 00 00	1 29 39	29.786	66.0	50.0	56.5	Minimum at 14 hours - 1 23 42
4 00 00	1 27 41	29.826	66.0	49.0	55.0	Mean - - - - 1 28 40
6 00 00	1 26 40	29.806	65.0	47.0	54.0	
8 00 00	1 26 15	29.800	65.0	46.0	53.5	
10 00 00	1 26 10	29.828	64.0	44.5	50.0	
Noon	1 26 00	29.860	63.0	44.0	49.0	
14 00 00	1 23 42	29.886	62.0	44.5	49.0	
16 00 00	1 25 32	29.930	61.7	47.3	49.5	
18 00 00	1 30 36	29.946	61.2	50.2	50.0	
20 00 00	1 33 38	29.956	62.7	53.0	50.7	
22 00 00	1 30 53	29.992	62.0	50.2	51.7	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
APRIL 10, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 38	30.032	61.8	51.3	52.0	Maximum at 22 hours - 1 34 20
2 00 00	1 27 12	30.084	60.5	50.5	51.8	Minimum at 14 hours - 1 23 10
4 00 00	1 26 49	30.080	61.8	48.7	51.0	Mean - - - 1 28 45
6 00 00	1 27 08	30.112	60.5	48.5	50.7	
8 00 00	1 27 06	30.096	60.5	48.3	50.2	
10 00 00	1 26 56	30.114	61.0	44.2	49.5	
Noon	1 24 59	30.156	60.3	42.3	47.8	
14 00 00	1 23 10	30.154	63.0	47.4	49.5	
16 00 00	1 25 40	30.148	62.0	53.5	54.0	
18 00 00	1 30 53	30.106	63.0	58.5	60.0	
20 00 00	1 33 35	30.060	64.0	58.5	62.0	
22 00 00	1 34 20	29.976	63.0	63.0	64.0	
APRIL 11, 1842.						
0 00 00	1 29 20	29.970	63.0	60.5	63.0	Maximum at 20 hours - 1 30 46
2 00 00	1 23 40	30.002	62.0	56.5	60.0	Minimum at 8 hours - 1 20 13
4 00 00	1 21 39	30.032	63.0	56.5	60.0	Mean - - - 1 25 29.5
6 00 00	1 22 22	29.910	62.0	54.0	58.0	
8 00 00	1 20 13	29.970	61.0	53.0	58.0	
10 00 00	1 22 17	30.028	61.0	52.0	56.0	
Noon	1 25 52	30.026	61.0	55.0	54.0	
14 00 00	1 24 15	30.036	62.0	57.0	56.0	
16 00 00	1 24 33	30.086	62.5	64.0	62.0	
18 00 00	1 29 46	30.076	63.0	66.5	64.0	
20 00 00	1 30 46	30.042	64.0	70.5	69.0	
22 00 00	1 29 13	30.028	65.0	74.5	71.0	
APRIL 12, 1842.						
0 00 00	1 26 37	30.028	66.0	73.0	72.0	Maximum at 20 hours - 1 34 19
2 00 00	1 29 38	30 036	64.5	64.0	69.0	Minimum at 8 hours - 1 21 10
4 00 00	1 22 40	30.056	64.0	56.0	64.0	Mean - - - 1 27 44.5
6 00 00	1 21 29	30.076	64.0	55.5	62.0	
8 00 00	1 21 10	30.102	64.0	54.0	60.0	
10 00 00	1 22 49	30.082	63.5	52.0	59.0	
Noon	1 24 59	30.070	63.0	55.0	58.0	
14 00 00	1 28 26	30.066	63.0	57.0	56.0	
16 00 00	1 24 10	30.072	64.0	64.0	60.0	
18 00 00	1 28 29	30.030	64.0	67.0	64.0	
20 00 00	1 34 19	30.000	64.0	72.0	67.0	
22 00 00	1 31 29	29.940	64.0	69.0	66.0	

OBSERVATIONS AT WASHINGTON—1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
APRIL 13, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 29 03	29.938	64.0	65.0	66.0	Maximum at 22 hours - 1 32 08
2 00 00	1 26 50	29.942	63.5	59.0	63.0	Minimum at 10 hours - 1 21 31
4 00 00	1 26 29	29.961	64.5	57.0	61.0	Mean - - - 1 26 49.5
6 00 00	1 25 58	29.972	65.0	56.0	60.0	
8 00 00	1 25 27	29.989	65.0	54.0	59.0	
10 00 00	1 21 31	29.999	64.0	51.0	56.0	
Noon	1 24 33	30.011	64.0	49.5	54.0	
14 00 00	1 26 07	30.028	64.5	49.5	54.0	
16 00 00	1 23 25	30.064	64.0	50.0	52.0	
18 00 00	1 25 58	30.036	64.0	49.5	52.0	
20 00 00	1 29 58	30.036	63.0	50.0	52.0	
22 00 00	1 32 08	29.956	62.5	50.0	52.0	
APRIL 14, 1842.						
0 00 00	1 29 18	29.956	64.0	49.5	50.5	Maximum at 20 hours - 1 33 18
2 00 00	1 28 05	29.941	62.5	47.5	50.0	Minimum at 14 hours - 1 22 13
4 00 00	1 27 43	29.936	62.0	48.0	50.0	Mean - - - 1 27 45.5
6 00 00	1 27 20	29.936	62.0	48.0	50.0	
8 00 00	1 26 43	29.936	62.0	48.0	50.0	
10 00 00	1 26 43	29.936	62.0	48.0	50.0	
Noon	1 24 15	29.936	59.0	47.0	49.5	
14 00 00	1 22 13	30.066	60.0	48.5	49.5	
16 00 00	1 25 14	30.032	58.8	50.8	51.0	
18 00 00	1 29 56	30.012	59.8	57.3	56.0	
20 00 00	1 33 18	29.984	61.3	60.0	61.5	
22 00 00	1 32 57	29.964	61.8	64.0	62.2	
APRIL 15, 1842.						
0 00 00	1 26 45	29.982	63.0	63.8	68.0	Maximum at 18 hours - 1 31 05
2 00 00	1 29 26	30.022	62.0	54.5	60.0	Minimum at 10 hours - 1 11 40
4 00 00	1 18 08	30.064	63.2	50.7	57.8	Mean - - - 1 21 22.5
6 00 00	1 28 04	30.096	63.5	47.0	57.0	
8 00 00	1 17 41	30.100	62.8	45.5	55.5	
10 00 00	1 11 40	30.128	62.2	42.8	52.3	REMARKS.
Noon	1 21 21	30.168	61.7	41.2	50.0	At 4*h*. 15*m*. A. M., an auroral light made its appearance, extending from E. N. E. to W. N. W; altitude, about 35°. At 9*h*. 15*m*. A. M., it disappeared. See extraordinary observations.
14 00 00	1 20 02	30.168	60.8	49.8	57.8	
16 00 00	1 29 09	30.170	61.5	56.5	56.5	
18 00 00	1 31 13	30.150	62.0	61.0	60.0	
20 00 00	1 31 05	30.162	62.0	62.0	62.0	
22 00 00	1 29 45	30.052	64.0	66.0	64.0	

APRIL 16, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 07	30.062	64.0	64.0	64.0	Maximum at 22 hours - 1 33 39
2 00 00	1 21 30	30.068	62.0	55.0	60.0	Minimum at 8 hours - 1 09 00
4 00 00	1 11 17	30.068	62.0	53.0	58.0	Mean - - - 1 21 19.5
6 00 00	1 18 13	30.122	61.5	55.0	58.0	
8 00 00	1 09 00	30.150	61.0	53 0	58.0	
10 00 00	1 17 35	30.148	61 0	50.0	56.0	
Noon	1 21 38	30.226	60.0	49.0	53.0	
14 00 00	1 23 21	30.236	60.0	50.0	53.0	
16 00 00	1 24 40	30.302	61.0	54.5	54.0	
18 00 00	1 29 34	30.300	62.0	57.5	55.0	
20 00 00	1 31 12	30.266	61.0	59.0	58.0	
22 00 00	1 33 39	30.260	62.0	54.0	56.0	

APRIL 17, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 30 12	30.266	62.0	52.0	55.0	Maximum at 20 hours - 1 30 12
2 00 00	1 29 40	30.260	61.0	51.0	54.0	Minimum at 14 hours - 1 22 43
4 00 00	1 28 20	30.282	61.0	49.0	53.0	Mean - - - 1 26 27.5
6 00 00	1 27 27	30.274	60.5	48.5	52.0	
8 00 00	1 26 28	30.274	60.0	47.0	51.0	
10 00 00	1 25 14	30.262	60.0	45.0	50.0	
Noon	1 23 19	30.246	59.5	44.0	49.0	
14 00 00	1 22 43	30.236	59.0	47.0	48.0	
16 00 00	1 24 39	30.228	59.5	48.0	49.0	
18 00 00	1 27 19	30.181	60.0	49.0	50.0	
20 00 00	1 30 12	30.146	60.0	50.0	50.0	
22 00 00	1 29 44	30.114	61.0	46.0	48.0	

APRIL 18, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 29 13	30.091	60.0	44.5	47.0	Maximum at 20 hours - 1 29 35
2 00 00	1 27 59	30.074	60.0	45.0	46.5	Minimum at 14 hours - 1 25 18
4 00 00	1 27 02	30.052	60.0	46 0	46.5	Mean - - - 1 27 26.5
6 00 00	1 28 23	30.004	59.0	45.0	46.0	
8 00 00	1 28 58	29.981	50.0	45.0	46.0	
10 00 00	1 28 25	29.989	58.5	45.5	46.0	
Noon	1 26 14	29.997	58.0	45.5	46.0	
14 00 00	1 25 18	29.998	58.0	46.0	46.0	
16 00 00	1 25 30	30.036	57 0	48.0	46.5	
18 00 00	1 28 30	30.066	58.0	47.5	46.5	
20 00 00	1 29 35	30.066	57.0	48.0	46.5	
22 00 00	1 29 08	29.981	56.0	47.0	46.0	

OBSERVATIONS AT WASHINGTON—1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
APRIL 19, 1842.						
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 28 53	29.946	57.0	46.5	46.5	Maximum at 15 hours - 1 30 47
2 00 00	1 26 53	29.946	56.0	46.5	46.0	Minimum at 8 hours - 1 22 49
4 00 00	1 26 53	29.891	56.0	45.5	46.0	Mean - - - - 1 26 48
6 00 00	1 24 53	29.891	56.0	45.0	46.0	
8 00 00	1 22 49	29.866	56.0	45.0	46.0	
10 00 00	1 23 55	29.840	56.0	45.0	46.0	
Noon	1 25 35	29.791	55.0	43.5	46.0	
14 00 00	1 23 48	29.776	55.0	43.5	44.5	
16 00 00	1 27 24	29.720	55.5	44.4	45.8	
18 00 00	1 30 47	29.780	57.0	43.8	46.0	
20 00 00	1 30 28	29.668	57.8	47.7	46.8	
22 00 00	1 29 38	29.638	58.2	51.7	48.7	
APRIL 20, 1842.						
0 00 00	1 27 16	29.672	58.0	49.3	49.5	Maximum at 18 hours - 1 31 48
2 00 00	1 25 37	29.676	58.0	47.7	49.3	Minimum at 10 hours - 1 24 37
4 00 00	1 26 38	29.718	57.0	47.3	49.0	Mean - - - - 1 28 12.5
6 00 00	1 26 59	29.732	57.7	47.0	48.7	
8 00 00	1 26 19	29.734	57.7	47.0	48.7	
10 00 00	1 24 37	29 752	57.5	46.3	48.2	
Noon	1 24 45	29.816	57.5	46.0	48.0	
14 00 00	1 27 10	29.854	58.0	51.8	50.5	
16 00 00	1 26 49	29.906	58.5	56.5	53.5	
18 00 00	1 31 48	29.932	58.5	57.5	53.5	
20 00 00	1 29 24	29.934	59.5	60.7	53.5	
22 00 00	1 28 08	29.950	59.5	60.7	53.5	
APRIL 21, 1842.						
0 00 00	1 26 28	29.982	58.5	57.0	58.0	Maximum at 22 hours - 1 35 17
2 00 00	1 25 32	30.018	59.5	51.0	60.0	Minimum at 10 hours - 1 21 19
4 00 00	1 28 40	30.020	59.5	52.0	59.8	Mean - - - - 1 28 18
6 00 00	1 24 47	30.020	60.0	47.0	60.0	
8 00 00	1 33 07	30.070	60.0	47.0	60.0	
10 00 00	1 21 19	30.070	59.5	47.0	60.0	
Noon	1 27 41	30.086	59.0	48.5	60.0	
14 00 00	1 24 54	30.166	59.0	55.0	60.0	
16 00 00	1 24 54	30.228	60.5	60.5	64.0	
18 00 00	1 29 22	30.230	62.0	62.0	68.0	
20 00 00	1 33 42	30.206	61.7	67.2	70.0	
22 00 00	1 35 17	30.198	63.0	68.0	72.0	

MAGNETICAL AND METEOROLOGICAL

APRIL 22, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.		
h. m. s.	° ′ ″	*Inches.*	°	°	°		° ′ ″
0 00 00	1 26 43	30.180	63.0	70.0	70.0	Maximum at 18 hours -	1 29 13
2 00 00	1 26 01	30.189	63.0	58.0	68.0	Minimum at 14 hours -	1 23 32
4 00 00	1 26 01	30.186	62.8	54.0	64.0	Mean - - -	1 26 22.5
6 00 00	1 26 09	30.186	62.5	52.0	60.0		
8 00 00	1 26 07	30.177	62.0	52.0	58.0		
10 00 00	1 24 12	30.169	61.0	52.0	54.0		
Noon	1 23 33	30.160	60.5	52.0	53.0		
14 00 00	1 23 32	30.160	61.2	55.0	55.0		
16 00 00	1 26 05	30.140	62.0	63.0	60.0		
18 00 00	1 29 13	30.086	63.5	70.0	66.0		
20 00 00	1 28 08	30.072	66.0	76.0	70.0		
22 00 00	1 27 13	29.970	65.0	78.5	74.0		

APRIL 23, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.		
0 00 00	1 25 58	29.948	67.0	74.0	74.0	Maximum at 20 hours -	1 30 16
2 00 00	1 25 43	29.988	65.0	66.5	70.0	Minimum at 14 hours -	1 22 23
4 00 00	1 25 30	29.936	65.0	65.0	68.0	Mean - - -	1 26 19.5
6 00 00	1 24 35	29.891	65.0	63.0	66.5		
8 00 00	1 23 48	29.891	65.0	60.0	64.0		
10 00 00	1 23 03	29.886	65.0	60.0	64.0		
Noon	1 23 13	29.941	65.0	60.0	62.0		
14 00 00	1 22 23	29.986	66.0	71.5	64.0		
16 00 00	1 26 03	30.012	68.7	76.8	71.7		
18 00 00		30.024	69.0	78.8			
20 00 00	1 30 16	30.024	69.5	81.2			
22 00 00	1 27 32	30.036	69.7	79.8			

APRIL 24, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.		
0 00 00	1 25 55	30.040	69.4	73.5	77.3	Maximum at 18 hours -	1 30 20
2 00 00	1 26 28	30.112	68.8	64.5	73.0	Minimum at 14 hours -	1 22 31
4 00 00	1 24 53	30.166	70.2	59.7	68.8	Mean - - -	1 26 23.5
6 00 00	1 25 58	30.174	70.4	56.5	65.5		
8 00 00	1 26 08	30.174	69.2	55.3	63.5		
10 00 00	1 24 29	30.158	68.6	54.7	62.0		
Noon	1 23 28	30.166	67.8	54.4	60.3		
14 00 00	1 22 31	30.168	67.5	59.0	60.3		
16 00 00	1 25 37	30.168	67.5	67.5	64.5		
18 00 00	1 30 20	30.150	67.5	73.0	67.5		
20 00 00	1 29 57	30.144	68.0	74.0	72.0		
22 00 00	1 27 46	30.072	69.0	77.5	74.0		

OBSERVATIONS AT WASHINGTON—1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
APRIL 25, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 15	30.078	68.5	72.0	72.0	Maximum at 20 hours - 1 29 08
2 00 00	1 26 15	30.104	68.5	64.0	70.0	Minimum at 14 hours - 1 20 58
4 00 00	1 25 15	30.096	68.5	63.5	70.0	Mean - - - 1 25 03
6 00 00	1 25 05	30.062	68.0	63.0	68.0	
8 00 00	1 25 00	30.012	68.0	62.5	67.0	
10 00 00	1 23 41	30.010	68.0	63.0	66.0	
Noon	1 21 01	29.976	68.0	63.0	66.0	
14 00 00	1 20 58	29.978	68.0	65.0	64.0	
16 00 00	1 23 38	30.036	69.0	70.5	66.0	
18 00 00	1 28 30	29.986	72.0	76.0	72.0	
20 00 00	1 29 08	29.982	72.0	84.0	78.0	
22 00 00	1 25 23	29.891	73.0	85.0	82.0	
APRIL 26, 1842.						
0 00 00	1 25 23	29.870	74.0	81.0	80.0	Maximum at 20 hours - 1 29 38
2 00 00	1 25 28	29.860	72.0	74.0	78.0	Minimum at 12 hours - 1 21 13
4 00 00	1 25 28	29.850	72.0	71.5	76.0	Mean - - - 1 25 25.5
6 00 00	1 24 33	29.842	72.0	69.0	74.0	
8 00 00	1 24 33	29.842	72.0	69.0	74.0	
10 00 00	1 22 43	29.816	72.0	69.0	72.0	
Noon	1 21 13	29.791	71.0	68.0	70.0	
14 00 00	1 21 30	29.776	72.0	72.5	70.0	
16 00 00	1 25 55	29.684	73.5	76.0	74.0	
18 00 00	1 28 37	29.608	73.5	79.5	78.0	
20 00 00	1 29 38	29.542	74.0	83.0	79.0	
22 00 00	1 27 38	29.588	72.0	66.0	78.0	
APRIL 27, 1842.						
0 00 00	1 25 28	29.588	72.5	65.7	74.2	Maximum at 20 hours - 1 31 35
2 00 00	1 24 55	29.586	72.5	63.5	71.5	Minimum at 12 hours - 1 22 01
4 00 00	1 24 59	29.608	71.8	57.7	69.2	Mean - - - 1 26 48
6 00 00	1 23 34	29.634	70.8	58.2	66.7	
8 00 00	1 22 40	29.638	69.0	53.8	63.8	
10 00 00	1 22 19	29.672	68.0	50.8	60.7	
Noon	1 22 01	29.726	67.5	50.8	58.2	
14 00 00	1 22 21	29.692	68.0	54.7	57.3	
16 00 00	1 25 20	29.662	67.5	59.5	58.0	
18 00 00	1 29 07	29.636	67.5	60.0	60.0	
20 00 00	1 31 35	29.646	67.0	65.0	62.0	
22 00 00	1 27 55	29.702	66.5	63.0	62.0	

MAGNETICAL AND METEOROLOGICAL

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
APRIL 28, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 40	29.746	65.0	60.0	60.0	Maximum at 20 hours - 1 29 10
2 00 00	1 25 23	29.744	64.0	52.0	58.0	Minimum at 12 hours - 1 21 55
4 00 00	1 25 23	29.808	66.5	47.5	56.0	Mean - - - 1 25 32.5
6 00 00	1 25 02	29.850	64.5	47.5	52.0	
8 00 00	1 24 28	29.856	64.5	46.0	51.5	
10 00 00	1 23 20	29.860	64.5	45.5	51.0	
Noon	1 21 55	29.910	64.5	50.7	50.5	
14 00 00		29.910	64.5	50.5	50.0	
16 00 00	1 26 05	29.966	61.0	53.5	52.0	
18 00 00	1 28 38	29.970	61.0	54.5	54.0	
20 00 00	1 29 10	29.970	60.0	55.0	56.0	
22 00 00	1 27 23	29.976	61.0	57.5	56.5	
APRIL 29, 1842.						
0 00 00	1 25 33	29.982	62.0	55.5	56.0	Maximum at 22 hours - 1 31 50
2 00 00	1 25 13	30.036	63.0	49.5	54.0	Minimum at 14 hours - 1 20 50
4 00 00	1 24 50	30.040	64.0	44.5	50.0	Mean - - - 1 26 20
6 00 00	1 23 53	30.056	65.0	40.5	48.0	
8 00 00	1 22 51	30.082	65.0	38.5	46.0	
10 00 00	1 22 51	30.084	62.0	39.5	44.0	
Noon	1 20 55	30.086	61.0	48.5	46.0	
14 00 00	1 20 50	30.091	63.0	54.5	48.0	
16 00 00	1 23 34	30.102	62.2	58.4	54.0	
18 00 00	1 28 18	30.046	62.0	64.8	59.0	
20 00 00	1 29 49	30.000	61.5	65.0	60.0	
22 00 00	1 31 50	29.976	61.7	61.4	60.0	
APRIL 30, 1842.						
0 00 00	1 27 27	29.964	61.3	57.0	59.3	Maximum at 18 hours - 1 28 50
2 00 00	1 25 39	29.964	60.5	51.0	56.0	Minimum at 14 hours - 1 21 55
4 00 00	1 25 24	29.976	62.5	48.5	54.0	Mean - - - 1 25 22.5
6 00 00	1 24 40	29.970	61.5	44.5	52.0	
8 00 00	1 24 11	29.962	60.5	42.5	50.0	
10 00 00	1 23 35	29.973	59.5	41.0	48.0	
Noon	1 22 02	29.961	59.0	44.0	47.0	
14 00 00	1 21 55	29.986	59.4	52.5	49.5	
16 00 00	1 24 53	29.960	62.5	57.0	55.0	
18 00 00	1 28 50	29.914	62.5	64.5	56.0	
20 00 00	1 28 49	29.874	63.0	67.5	64.0	
22 00 00	1 27 38	29.872	62.5	69.0	66.0	

OBSERVATIONS AT WASHINGTON—1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 1, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 28 51	29.850	64.0	65.0	65.0	Maximum at 0 hours - 1 28 51
2 00 00	1 25 24	29.836	64.0	56.5	64.0	Minimum at 12 hours - 1 20 58
4 00 00	1 25 39	29.864	63.5	55.5	60.0	Mean - - - 1 24 54.5
6 00 00	1 22 43	29.886	66.0	53.5	60.0	
8 00 00	1 23 18	29.836	62.0	52.0	58.0	
10 00 00	1 22 38	29.816	61.5	51.5	56.0	
Noon	1 20 58	29.806	62.0	56.0	56.0	
14 00 00	1 21 01	29.786	63.0	61.5	58.0	
16 00 00	1 24 00	29.756	63.0	65.5	60.0	
18 00 00	1 28 15	29.686	65.0	72.0	64.0	
20 00 00	1 28 18	29.636	65.0	72.5	68.0	
22 00 00	1 25 48	29.580	66.0	77.5	72.0	
MAY 2, 1842.						
0 00 00	1 25 10	29.540	67.0	78.0	72.0	Maximum at 20 hours - 1 29 37
2 00 00	1 25 00	29.554	66.5	67.5	70 5	Minimum at 14 hours - 1 21 28
4 00 00	1 23 58	29.566	62.0	62.5	68.5	Mean - - - 1 25 32.5
6 00 00	1 22 30	29.636	66.0	56.0	64.0	
8 00 00	1 22 30	29.636	66.0	58.0	64.0	
10 00 00	1 22 09	29.642	66.0	56.0	64.0	
Noon	1 21 48	29.661	65.0	55.0	60.0	
14 00 00	1 21 28	29.661	65.0	55.0	58.0	
16 00 00	1 24 33	29.648	64.4	55.5	58.0	
18 00 00	1 28 55	29.574	65.5	58.5	59.0	
20 00 00	1 29 37	29.590	66.5	68.2	61.0	
22 00 00	1 26 11	29.710	66.1	53.0	61.2	
MAY 3, 1842.						
0 00 00	1 24 55	29.756	65.0	52.5	59.0	Maximum at 16 hours - 1 28 57
2 00 00	1 25 47	29.810	64.0	52.0	57.5	Minimum at 12 hours - 1 21 48
4 00 00	1 25 47	29.836	64.6	52.0	56.5	Mean - - - 1 25 22.5
6 00 00	1 24 53	29.884	64.0	49.2	56.0	
8 00 00	1 24 07	29.886	64.0	46.2	54.0	
10 00 00	1 23 05	29.860	63.0	45.5	53.0	
Noon	1 21 48	29.850	63.5	45.5	52.5	
14 00 00	1 22 51	29.874	62.0	45.7	52.0	
16 00 00	1 28 57	29.912	61.7	45.5	51.0	
18 00 00	1 28 14	29.852	61.0	47.0	50.0	
20 00 00	1 27 38	29.870	61.0	47.5	50.0	
22 00 00	1 25 33	29.844	64.0	47.5	50.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 4, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 24 32	29.856	62.0	47.0	50.0	Maximum at 18 hours - 1 29 20
2 00 00	1 26 03	29.892	60.0	46.0	49.5	Minimum at 12 hours - 1 21 41
4 00 00	1 25 21	29.900	60.0	45.5	49.5	Mean - - - 1 25 30.5
6 00 00	1 24 00	29.946	60.0	45.0	48.0	
8 00 00	1 24 39	29.936	60.0	45.0	48.0	
10 00 00	1 23 44	29.936	60.0	45.0	48.0	
Noon	1 21 41	30.010	59.0	46.5	48.0	
14 00 00	1 22 38	30.036	60.0	51.0	50.0	
16 00 00	1 27 33	30.046	60.0	57.5	53.0	
18 00 00	1 29 20	30.044	59.5	60.7	57.0	
20 00 00	1 28 52	30.080	61.2	63.8	58.0	
22 00 00	1 26 17	30.084	61.5	64.5	60.0	
MAY 5, 1842.						
0 00 00	1 25 32	30.092	61.5	62.5	61.0	Maximum at 20 hours - 1 27 53
2 00 00	1 26 33	30.144	60.5	53.7	58.0	Minimum at 12 hours - 1 19 51
4 00 00	1 25 25	30.204	60.0	50.0	58.0	Mean - - - 1 23 52
6 00 00	1 25 09	30.210	59.5	50.5	54.0	
8 00 00	1 23 50	30.236	60.5	47.5	52.0	
10 00 00	1 23 48	30.270	59.5	43.5	50.0	REMARKS.
Noon	1 19 16	30.324	59.0	46.0	48.0	
14 00 00	1 19 51	30.370	61.0	55.0	51.0	Observations at 4*h*. and 6*h*. doubtful, from great vibration.
16 00 00	1 26 06	30.386	61.0	57.0	56.0	
18 00 00		30.376	62.0	60.0	60.0	Adjusting the instrument at 18*h*.
20 00 00	1 27 53	30.336	62.0	63.0	64.0	
22 00 00	1 25 58	30.371	62.0	67.0	66.0	
MAY 6, 1842.						
0 00 00	1 26 23	30.356	62.0	68.0	66.0	Maximum at 18 hours - 1 35 56
2 00 00	1 26 08	30.286	62.0	56.5	64.0	Minimum at 14 hours - 1 20 53
4 00 00	1 26 54	30.286	61.0	51.0	59.2	Mean - - - 1 28 24.5
6 00 00	1 26 54	30.286	61.0	46.0	52.5	
8 00 00	1 24 03	30.276	61.0	46.0	52.0	
10 00 00	1 24 00	30.276	61.0	43.0	50.0	
Noon	1 20 53	30.280	61.0	43.0	50.0	
14 00 00	1 20 53	30.280	60.0	55.0	52.0	
16 00 00	1 27 30	30.238	60.7	62.0	58.0	
18 00 00	1 35 56	30.184	61.0	68.0	64.0	
20 00 00	1 32 52	30.126	61.0	72.5	68.0	
22 00 00	1 31 09	30.114	61.5	74.5	70.0	

OBSERVATIONS AT WASHINGTON—1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 7, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 28 21	30.078	61.5	72.5	70.0	Maximum at hours -
2 00 00	1 27 15	30.106	61.5	59.5	67.5	Minimum at hours -
4 00 00	1 26 20	30.112	61.5	56.0	64.0	Mean - - - -
6 00 00	1 25 13	30.092	61.5	55.0	62.0	
8 00 00	1 23 22	30.064	61.0	50.5	58.0	
10 00 00	1 23 20	30.100	60.5	51.0	57.0	
Noon	1 25 05	30.180	60.5	58.0	56.0	
14 00 00	1 23 35	30.190	61.0	60.0	57.0	
16 00 00						
18 00 00						
20 00 00	1 30 56	30.188	61.4	64.4	65.2	
22 00 00	1 22 40	30.186	62.0	66.5	68.0	
MAY 8, 1842.						
0 00 00	1 26 00	30.186	62.0	65.0	66.0	Maximum at 20 hours - 1 31 43
2 00 00	1 24 00	30.176	61.5	54.0	62.0	Minimum at 14 hours - 1 20 53
4 00 00	1 25 13	30.168	61.0	49.5	56.5	Mean - - - - 1 26 18
6 00 00	1 24 58	30.172	61.0	45.0	54.0	
8 00 00	1 24 58	30.144	61.0	45.0	54.0	
10 00 00	1 26 03	30.136	60.0	46.5	52.0	
Noon	1 21 03	30 136	61.0	50.5	52.0	
14 00 00	1 20 53	30.141	62.0	57.0	52.0	
16 00 00	1 27 28	30.070	63.0	61.2	56.0	
18 00 00	1 30 54	29.996	63.5	64.0	59.0	
20 00 00	1 31 43	29.944	64.0	68 5	60.0	
22 00 00	1 29 13	29.910	64.0	62.0	62.0	
MAY 9, 1842.						
0 00 00	1 26 58	29.876	65.0	65.0	60.0	Maximum at 18 hours - 1 30 30
2 00 00	1 25 36	29.906	63.0	52.5	59.0	Minimum at 14 hours - 1 22 20
4 00 00	1 25 45	29.906	63.0	52.0	56.0	Mean - - - 1 26 25
6 00 00	1 25 28	29.906	63.0	51.0	55.0	
8 00 00	1 24 40	29.886	63.0	50.0	54.0	
10 00 00	1 24 47	29.868	63.0	49.0	53.0	
Noon	1 23 06	29.862	63.0	51.0	52.0	
14 00 00	1 22 20	29.930	63.0	53.7	53.0	
16 00 00	1 26 37	29.926	61.7	55.3	55.8	
18 00 00	1 30 30	29.946	60.3	54.7	57.0	
20 00 00	1 30 24	29 948	61.2	56.8	58.7	
22 00 00	1 26 45	29.954	61.5	59.0	60.0	

MAY 10, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.		
h. m. s.	° ′ ″	*Inches.*	°	°	°		° ′ ″
0 00 60	1 22 52	29.968	62.8	59.8	60.0	Maximum at 20 hours -	1 30 55
2 00 00	1 25 50	30.008	61.0	53.4	57.0	Minimum at 12 hours -	1 21 01
4 00 00	1 25 21	30.032	63.3	48.7	56.0	Mean - - -	1 25 58
6 00 00	1 25 24	30.036	61.8	46.0	53.5		
8 00 00	1 26 25	30.936	61.5	46.3	52.0		
10 00 00	1 23 50	30.018	61.4	46.8	51.5		
Noon	1 21 01	30.032	61.2	47.5	51.0		
14 00 00	1 21 14	30.010	61.0	55.3	52.0		
16 00 00		29.986	62.0	63.5	60.0		
18 00 00	1 29 03	29.942	63.0	74.0	62.0		
20 00 00	1 30 55	29.918	64.5	75.5	66.0		
22 00 00	1 29 00	29.882	65.0	75.0	68.0		

MAY 11, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.		
0 00 00	1 25 46	29.860	64.0	70.0	65.0	Maximum at 20 hours -	1 31 19
2 00 00	1 25 59	29.864	64.0	64.0	66.0	Minimum at 14 hours -	1 22 42
4 00 00	1 23 40	29.896	63.5	60.5	64.0	Mean - - -	1 27 00.5
6 00 00	1 27 16	29.880	63.5	59.0	63.0		
8 00 00	1 26 49	29.852	63.0	58.5	62.0		
10 00 00	1 24 38	29.846	63.0	57.5	60.0		
Noon	1 22 56	29.856	63.0	63.0	60.0		
14 00 00	1 22 42	29.832	64.0	69.0	63.0		
16 00 00	1 27 36	29.842	66.0	71.5	65.0		
18 00 00	1 30 58	29.782	68.0	78.0	72.0		
20 00 00	1 31 19	29.730	68.0	83.0	76.0		
22 00 00	1 28 41	29.700	69.0	85.0	78.0		

MAY 12, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.		
0 00 00	1 25 45	29.702	71.5	86.0	80.0	Maximum at 18 hours -	1 30 00
2 00 00	1 26 43	29.776	70.0	75.0	77.0	Minimum at 14 hours -	1 18 48
4 00 00	1 24 34	29.802	69.5	73.0	72.0	Mean - - -	1 24 24
6 00 00	1 22 48	29.846	69.0	69.0	70.0		
8 00 00	1 22 03	29.901	69.0	65.0	68.0		
10 00 00	1 20 40	29.955	68.0	61.0	64.5		
Noon	1 19 21	30.017	67.0	60.0	60.5		
14 00 00	1 18 48	30.068	67.0	60.0	60.0		
16 00 00	1 24 48	30.060	66.0	61.0	62.5		
18 00 00	1 30 00	30.046	66.0	63.0	66.0		
20 00 00	1 29 08	30.036	66.0	68.0	68.5		
22 00 00	1 27 23	29.976	66.5	73.0	70.0		

OBSERVATIONS AT WASHINGTON—1842.

MAY 13, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 25 33	29.986	67.0	72.5	70.5	Maximum at 18 hours - 1 30 56
2 00 00	1 24 54	29.986	66.5	60.5	68.0	Minimum at 14 hours - 1 19 48
4 00 00	1 24 19	30.066	66.5	57.0	64.5	Mean - - - 1 25 22
6 00 00	1 24 19	30.066	66.0	51.5	58.0	
8 00 00	1 23 43	30.066	66.0	51.5	58.0	
10 00 00	1 23 03	29.974	66.0	52.0	58.0	
Noon	1 20 35	29.974	66.0	55.5	56.0	
14 00 00	1 19 48	29.944	67.0	64.5	58.0	
16 00 00	1 26 20	29.862	67.2	68.0	62.7	
18 00 00	1 30 56	29.824	67.8	76.3	67.3	
20 00 00	1 30 30	29.794	68.3	78.0	70.0	
22 00 00	1 28 22	29.788	68.3	77.0	71.5	

MAY 14, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 25 12	29 822	68.5	71.7	72.2	Maximum at 20 hours - 1 30 14
2 00 00	1 25 55	29.934	68.0	63.8	70.0	Minimum at 14 hours - 1 23 34
4 00 00	1 25 39	30.064	68.0	57.0	66.0	Mean - - - 1 26 54
6 00 00	1 25 49	30.074	68.5	53.2	62.5	
8 00 00						
10 00 00	1 24 50	30.122	66.8	46.7	56.0	
Noon	1 23 37	30.168	66.5	47.7	53.0	
14 00 00	1 23 34	30.220	66.5	54.4	55.0	
16 00 00	1 27 56	30.206	66.5	58.0	58.0	
18 00 00	1 28 14	30.174	66.5	62.0	57.5	
20 00 00	1 30 14	30.132	66.0	67.5	64.0	
22 00 00	1 27 23	30.104	66.5	68.6	66.0	

MAY 15, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 26 20	30.104	66.0	65.0	66.0	Maximum at 20 hours - 1 30 31
2 00 00	1 27 03	30.106	65.0	56.0	62.0	Minimum at 6 hours - 1 19 39
4 00 00	1 25 38	30.108	65.0	55.0	60.0	Mean - - - 1 25 05
6 00 00	1 19 39	30.084	65.0	53.0	58.0	
8 00 00	1 24 11	30.068	64.5	49.0	56.0	
10 00 00	1 22 17	30.034	64.0	48.0	54.0	
Noon	1 21 06	30.028	64.0	52.0	54.0	
14 00 00	1 20 50	29.990	64.0	51.5	53.0	
16 00 00	1 26 47	30.000	64.5	52.0	53.0	
18 00 00	1 30 16	29.986	65.0	51.0	54.0	
20 00 00	1 30 31	29.978	65.0	55.0	54.0	
22 00 00	1 28 42	29.982	66.0	54.5	54.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 16, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 32	29.986	64.5	53.5	53.0	Maximum at 18 hours - 1 30 57
2 00 00	1 25 07	30.006	64.0	51.5	52.0	Minimum at 4 hours - 1 24 29
4 00 00	1 24 29	30.018	64.0	48.0	51.0	Mean - - - 1 27 43
6 00 00	1 24 32	30.018	64.0	44.5	50.0	
8 00 00	1 26 36	30 027	64.0	46.0	50.0	
10 00 00	1 29 12	30.041	63.0	49.0	49.0	
Noon	1 30 36	30.071	62.0	51.0	48.0	
14 00 00	1 30 54	30.086	62.0	52.0	48.0	
16 00 00	1 30 10	30.086	63.5	64.0	54.5	
18 00 00	1 30 57	30.086	63.5	70.0	60.0	
20 00 00	1 28 07	30.076	65.0	73.5	64.5	
22 00 00	1 28 17	30.036	64.0	77.5	68.0	
MAY 17, 1842.						
0 00 00	1 28 00	30.056	64 0	72.5	68.0	Maximum at 18 hours - 1 29 11
2 00 00	1 27 44	30.086	64.0	64.0	66.0	Minimum at 14 hours - 1 22 22
4 00 00	1 27 44	30.086	64.0	64.0	66 0	Mean - - - 1 25 46.5
6 00 00	1 27 30	30.140	64.0	63 0	58.0	
8 00 00	1 26 56	30.140	64.0	63.0	58.0	
10 00 00	1 27 08	30.186	63.0	64 0	58.0	
Noon	1 22 32	30.186	63.0	63.0	58.0	
14 00 00	1 22 22	30.191	63.0	63.0	58 0	
16 00 00	1 27 38	30.214	64.7	70.5	64.0	
18 00 00	1 29 11	30.202	65.4	76.0	70.0	
20 00 00	1 28 55	30.188	66.0	80.0	74.0	
22 00 00	1 27 32	30.186	67.0	81.0	75.0	
MAY 18, 1842.						
0 00 00	1 27 28	30.188	67.0	74 5	74.5	Maximum at 20 hours - 1 30 00
2 00 00	1 24 32	30.192	66 5	65.5	72.0	Minimum at 14 hours - 1 24 11
4 00 00	1 25 18	30.216	67.0	61.0	70.0	Mean - - - 1 27 05.5
6 00 00	1 26 05	30.218	69.0	57.8	66.5	
8 00 00	1 25 05	30.228	69.0	56.0	64.0	
10 00 00	1 27 29	30.240	69 0	55.4	63.5	
Noon	1 24 48	30.254	68.8	57.0	61.5	
14 00 00	1 24 11	30.268	68.5	68.0	63.0	
16 00 00	1 26 50	30.268	68.5	71.5	66.0	
18 00 00	1 28 34	30.266	68.5	76.5	68.0	
20 00 00	1 30 00	30.236	68.5	78.5	70.0	
22 00 00	1 28 47	30.196	68.0	74.0	72.0	

OBSERVATIONS AT WASHINGTON—1842.

MAY 19, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.				
			Attached.	Air.	Magnetic observatory.		
h. m. s.	° ′ ″	Inches.	°	°	°		° ′ ″
0 00 00	1 25 32	30.186	68.0	73.5	72.0	Maximum at 22 hours -	1 29 56
2 00 00	1 26 26	30.196	68.0	65.0	70.0	Minimum at 14 hours -	1 22 45
4 00 00	1 25 46	30.226	67.5	62 0	68.0	Mean - - -	1 26 20.5
6 00 00	1 25 46	30.180	67.5	60.0	64.0		
8 00 00	1 26 25	30 172	67.5	56.0	64.0		
10 00 00	1 24 51	30.178	67.0	58.0	63.0		
Noon	1 26 54	30 186	67.0	62.0	63.0		
14 00 00	1 22 45	30.182	67.0	70.0	64.0		
16 00 00	1 26 20	30.178	69.0	74.0	69.0		
18 00 00	1 28 34	30.172	71.0	78.5	72.0		
20 00 00	1 29 39	30.172	75.0	81.5	76.5		
22 00 00	1 29 56	30.072	75.0	85.0	79.0		

MAY 20, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.		
0 00 00	1 26 42	30.072	74.5	80.0	78.0	Maximum at 18 hours -	1 29 15
2 00 00	1 26 48	30.076	73.5	75.0	76.0	Minimum at 14 hours -	1 24 15
4 00 00	1 26 30	30.082	72.0	70.0	75.0	Mean - - -	1 26 45
6 00 00	1 25 50	30.086	72.0	68.0	74.0		
8 00 00	1 25 36	30.091	71.5	66.0	72.0		
10 00 00	1 25 05	30.098	71.0	63.0	70.0		
Noon	1 24 25	30.111	70.0	56 0	67.5		
14 00 00	1 24 15	30.114	70.5	55.0	64.0		
16 00 00	1 28 04	30 172	69.0	52.0	60.0		
18 00 00	1 29 15	30.236	69.0	50.0	56.5		
20 00 00	1 28 05	30.366	70.0	48.5	56.0		
22 00 00	1 26 35	30.386	69.0	47.0	54.0		

MAY 21, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.		
0 00 00	1 26 12	30.386	63.0	46.5	52.0	Maximum at 18 hours -	1 30 00
2 00 00	1 26 27	30.378	66.0	45.5	50.5	Minimum at 12 hours -	1 22 06
4 00 00	1 25 45	30.336	66.0	46.0	50.0	Mean - - -	1 26 03
6 00 00	1 25 21	30.376	65.0	45.0	50.0		
8 00 00	1 25 15	30.338	64.0	45.0	50.0		
10 00 00	1 24 26	30.346	64.0	45.5	50.0		
Noon	1 22 06	30.346	64 0	46.0	48.0		
14 00 00	1 22 10	30.356	63.0	46.5	48.0		
16 00 00	1 28 20	30.350	62.2	50.7	50.0		
18 00 00	1 30 00	30.344	62.7	54.2	50.5		
20 00 00	1 29 28	30.322	63.5	54.5	52.0		
22 00 00	1 27 37	30.284	63.2	55.2	53.0		

MAY 22, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 19	30.242	62.8	53.4	53.4	Maximum at 20 hours - 1 31 53
2 00 00	1 27 36	30.232	63.0	52.0	53.0	Minimum at 12 hours - 1 21 51
4 00 00	1 27 10	30.226	64.0	51.5	53.5	Mean - - - 1 26 52
6 00 00	1 26 34	30.196	64.0	51.0	53.0	
8 00 00	1 26 10	30.148	62.5	51.0	53.0	
10 00 00	1 24 48	30.108	62.0	51.5	53.0	
Noon.	1 21 51	30.096	61.5	53.0	53.0	
14 00 00	1 22 34	30.084	61.8	57.3	54.0	
16 00 00	1 27 05	30.030	63.5	60.0	56.0	
18 00 00	1 30 23	30.000	64.0	61.5	57.0	
20 00 00	1 31 53	29.976	64.0	63.0	58.0	
22 00 00	1 28 10	29.914	64.5	71.5	60.0	

MAY 23, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 00	29.916	65.0	68.0	63.0	Maximum at 20 hours - 1 33 03
2 00 06	1 27 23	29.902	64.0	62.0	63.0	Minimum at 12 hours - 1 22 41
4 00 00	1 27 08	29.872	63.0	60.5	63.0	Mean - - - 1 27 52
6 00 00	1 26 48	29.880	62.0	60.0	62.0	
8 00 00	1 26 19	29.886	64.0	59.0	62.0	
10 00 00	1 24 35	29.923	63.0	61.0	60.0	
Noon	1 22 41	29.932	64.0	65.0	62.0	
14 00 00	1 23 19	29.936	62.0	69.5	64.0	
16 00 00	1 26 45	29.964	66.0	68.0	67.0	
18 00 00	1 31 17	29.992	66.2	71.0	69.0	
20 00 00	1 33 03	30.008	66.2	70.5	70.0	
22 00 00	1 29 04	29.996	66.5	73.5	72.5	

MAY 24, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 26 41	30.026	68.0	72.0	72.0	Maximum at 20 hours - 1 31 52
2 00 00	1 26 35	30.030	66.5	63.0	69.0	Minimum at 14 hours - 1 17 38
4 00 00	1 26 49	30.066	67.0	59.0	66.0	Mean - - - 1 24 45
6 00 00	1 26 41	30.068	67.0	57.5	63.0	
8 00 00	1 26 45	30.081	67.0	56.0	62.0	
10 00 00	1 23 37	30.071	67.5	58.0	60.0	
Noon	1 19 34	30.068	67.0	60.0	61.0	
14 00 00	1 17 38	30.068	67.5	65.0	60.0	
16 00 00	1 23 55	30.056	68.0	70.0	64.0	
18 00 00	1 30 25	30.036	67.0	69.5	66.0	
20 00 00	1 31 52	29.976	67.0	70.5	66.0	
22 00 00	1 27 56	29.946	68.0	70.5	66.5	

OBSERVATIONS AT WASHINGTON—1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 25, 1842.						
h. m. s.	° ' "	*Inches.*	°	°	°	° ' "
0 00 00	1 26 43	29.946	68.0	67.5	66.5	Maximum at 20 hours - 1 32 13
2 00 00	1 26 02	29.940	68.0	65.0	66 0	Minimum at 14 hours - 1 20 55
4 00 00	1 25 43	29.936	70.0	64.0	66.0	Mean - - - 1 26 34
6 00 00	1 22 42	29.954	70.0	63.5	64.5	
8 00 00	1 22 45	29.954	70.0	63 0	64.5	
10 00 00	1 23 53	29.956	69.0	60.5	64.0	
Noon	1 22 20	29.986	68.0	59 5	62.0	
14 00 00	1 20 55	30.056	68.0	62.5	62.0	
16 00 00	1 26 03	30.074	68.0	66.0	64.5	
18 00 00	1 29 58	30.054	67.0	70.5	68.0	
20 00 00	1 32 13	30.030	68.5	72.5	70.5	
22 00 00	1 29 00	30.012	68.5	74.5	72.0	
MAY 26, 1842.						
0 00 00	1 27 25	30.014	68.0	75.0	72.0	Maximum at 20 hours - 1 31 11
2 00 00	1 23 30	30.036	67.0	63.5	70.0	Minimum at 12 hours - 1 21 32
4 00 00	1 25 25	30.086	68.0	57.0	64.0	Mean - - - 1 26 21.5
6 00 00	1 25 09	30.110	67.5	56.0	62.0	
8 00 00	1 25 59	30.076	67.0	53.0	60.0	
10 00 00	1 25 13	30.086	67.0	51.0	58.0	
Noon	1 21 32	30.096	67.0	55.5	56.0	
14 00 00	1 22 42	30.110	67.5	64.0	58.0	
16 00 00	1 25 27	30.120	67.5	74.0	64.0	
18 00 00	1 28 54	30.094	68.5	75.5	70.0	
20 00 00	1 31 11	30.046	69.0	78.0	72.0	
22 00 00	1 29 52	30.022	69.0	80.0	73.0	
MAY 27, 1842.						
0 00 00	1 24 50	30.006	69.6	73.0	73.0	Maximum at 18 hours - 1 30 28
2 00 00	1 25 58	30.008	68.0	67.0	67.0	Minimum at 14 hours - 1 21 39
4 00 00	1 26 48	30.008	68.0	60.0	66.0	Mean - - - 1 26 03.5
6 00 00	1 24 19	30.000	68.0	59.0	65.0	
8 00 00	1 23 34	29.996	68.0	58.0	64.0	
10 00 00	1 22 35	29 981	68.0	61.0	64.0	
Noon	1 22 09	29.970	68.0	64.0	64.0	
14 00 00	1 21 39	29.958	68.0	66.0	64.0	
16 00 00	1 24 33	29.966	68.0	71.5	66.0	
18 00 00	1 30 28	29.936	69.0	78.0	68.0	
20 00 00	1 30 20	29.936	69.0	80.5	72.0	
22 00 00	1 27 14	29.848	70.0	80.2	74.6	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
MAY 28, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 27	29.848	70.0	75.5	76.0	Maximum at 20 hours - 1 32 26
2 00 00	1 25 55	29.886	70.0	70.5	75.0	Minimum at 14 hours - 1 21 17
4 00 00	1 25 52	29.956	70.0	67.5	74.0	Mean - - - 1 26 51.5
6 00 00	1 26 36	29.968	70.0	64.5	72.0	
8 00 00	1 28 30	29.970	70.0	63.0	70.5	
10 00 00	1 25 49	30.036	69.0	60.5	71.3	
Noon	1 22 52	30.076	69.5	60.5	70.8	
14 00 00	1 21 17	30 086	69.0	71.5	72.0	
16 00 00	1 25 52	30.080	71.0	71.5	74.0	
18 00 00	1 23 46	30.068	71.0	75.0	76.0	
20 00 00	1 32 26	30.024	71.0	76.8	80.0	
22 00 00	1 30 26	30.004	70.9	81.9	81.0	
MAY 29, 1842.						
0 00 00	1 26 08	29.996	71.5	80.5	81.0	Maximum at 20 hours - 1 29 16
2 00 00	1 26 25	30.028	71.0	71.5	78.0	Minimum at 14 hours - 1 19 54
4 00 00	1 21 53	30.026	71.0	68.0	76.0	Mean - - - 1 24 35
6 00 00	1 27 22	29.996	71.0	66.0	73.0	
8 00 00	1 21 25	29 972	71.0	65.0	72.0	
10 00 00	1 22 48	29.916	70.5	63.0	70.0	
Noon	1 20 16	29 924	71.0	66.5	69 0	
14 00 00	1 19 54	29.886	71.0	77.0	71.0	
16 00 00	1 23 36	29 860	73.6	79.5	74 0	
18 00 00	1 25 40	29.828	74.0	82.0	76.0	
20 00 00	1 29 16	29.756	74.5	85.5	78.0	
22 00 00	1 26 49	29.741	74.0	78.0	75.0	
MAY 30, 1842.						
0 00 00	1 25 19	29.736	73.0	72.0	74.0	Maximum at 18 hours - 1 28 54
2 00 00	1 25 51	29.726	73.0	68.5	73.6	Minimum at 14 hours - 1 21 38
4 00 00	1 25 31	29.718	73.0	67.0	72.0	Mean - - - 1 25 16
6 00 00	1 24 51	29.718	72.5	67.5	70.5	
8 00 00	1 24 29	29.716	72.0	67.0	70.0	
10 00 00	1 22 49	29.688	71.5	69.5	70.0	
Noon	1 22 03	29 671	72 0	72.0	70.0	
14 00 00	1 21 38	29 668	72.6	75.0	70.0	
16 00 00	1 25 38	29.676	73.5	76.5	74.0	
18 00 00	1 28 54	29.678	74.0	77 0	76 0	
20 00 00	1 28 20	29.678	74.0	79.0	78.0	
22 00 00	1 27 55	29.680	73.5	78.5	78.0	

OBSERVATIONS AT WASHINGTON—1842.

MAY 31, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 25 58	29.682	73.0	75.0	76.0	Maximum at 20 hours - 1 30 04
2 00 00	1 25 38	29.776	72.0	66.5	72.5	Minimum at 14 hours - 1 20 28
4 00 00	1 26 03	29.791	72.0	63.0	70.0	Mean - - - 1 25 16
6 00 00	1 25 22	29.791	71.5	60.0	66.0	
8 00 00	1 25 30	29.836	70.5	57.5	64.0	
10 00 00	1 24 40	29.846	70.0	57.5	60.0	
Noon	1 22 30	29.876	70.0	57.5	60.0	
14 00 00	1 20 28	29.976	69.0	63.0	60 5	
16 00 00	1 26 29	29.986	69.5	64.0	66.0	
18 00 00	1 29 31	29.986	69.5	66.5	68.0	
20 00 00	1 30 04	29.978	70.0	68.5	70.0	
22 00 00	1 27 20	29.986	70.0	71.5	72.0	

JUNE 1, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 25 34	29.998	71.0	71.0	71.0	Maximum at 20 hours - 1 31 16
2 00 00	1 26 18	30 052	69.5	60.0	68.0	Minimum at 14 hours - 1 21 39
4 00 00	1 26 25	30.090	69.5	56.0	64.0	Mean - - - 1 26 27.5
6 00 00	1 26 13	30.086	68.5	53.0	60.0	
8 00 00	1 25 47	30.108	68.0	51.5	58.0	
10 00 00	1 25 10	30.116	67.0	52.0	56.0	
Noon	1 22 06	30.154	68.0	60.0	56.0	
14 00 00	1 21 39	30.176	68.0	65.0	58.0	
16 00 00	1 26 41	30.176	68.0	68 0	62.2	
18 00 00	1 29 30	30.176	68.0	70.0	67.6	
20 00 00	1 31 16	30.136	68.0	72.0	71.0	
22 00 00	1 30 18	30.136	68.0	74.0	72.0	

JUNE 2, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
0 00 00	1 26 45	30.148	68.2	73.0	72.0	Maximum at 20 hours - 1 32 38
2 00 00	1 27 20	30.156	68.0	63.0	69.0	Minimum at 14 hours - 1 20 25
4 00 00	1 25 53	30.178	67.5	56.0	64.0	Mean - - - 1 26 31.5
6 00 00	1 24 31	30.190	67.0	53.0	60.0	
8 00 00	1 23 34	30.198	66.5	51.5	59.0	
10 00 00	1 21 28	30.208	66.6	49.0	56.0	
Noon	1 20 35	30.256	66.2	56.0	56.0	
14 00 00	1 20 25	30.259	66.5	64.0	56.0	
16 00 00	1 27 48	30.276	66.5	68.5	64.0	
18 00 00	1 31 58	30.276	68.0	72.0	68.0	
20 00 00	1 32 38	30.256	68.0	73.0	70.5	
22 00 00	1 29 48	30.236	68.0	75.5	72.0	

JUNE 3, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 25 35	30.191	68.0	74.0	72.0	Maximum at 22 hours - 1 32 30
2 00 00	1 22 26	30.166	68.0	64.5	70.0	Minimum at 14 hours - 1 19 40
4 00 00	1 24 23	30.156	67.5	59.5	66.2	Mean - - - - 1 26 05
6 00 00	1 25 08	30.156	71.0	54.0	62.0	
8 00 00	1 23 50	30.156	71.0	52.0	60.0	
10 00 00	1 22 41	30.154	70.5	48.5	56.0	
Noon	1 19 55	30.154	70.0	56.5	56.0	
14 00 00	1 19 40	30.146	70.0	65.0	58.0	
16 00 00	1 26 38	30.196	69.0	67.5	64.0	
18 00 00	1 27 51	30.138	69.0	69.0	67.0	
20 00 00	1 26 10	30.040	69.0	74.5	71.0	
22 00 00	1 32 30	30.036	69.0	77.0	73.0	

JUNE 4, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 25 07	30.036	70.0	76.0	73.0	Maximum at 22 hours - 1 32 20
2 00 00	1 25 07	30.036	69.5	66.0	71.0	Minimum at 14 hours - 1 21 26
4 00 00	1 25 07	29.999	69.0	65 0	71.0	Mean - - - - 1 26 53
6 00 00	1 26 07	30.036	69.0	64.0	68.0	
8 00 00	1 25 00	29.999	69.0	63.5	68.0	
10 00 00	1 23 09	29.935	69.0	62.5	67.0	
Noon	1 21 26	29.936	69.0	64.0	66.0	
14 00 00	1 21 26	99.910	69.0	65.5	66.0	
16 00 00	1 23 16	29.986	69.5	69.0	68.0	
18 00 00	1 25 40	29.982	69.5	73.8	70.0	
20 00 00	1 29 24	29.976	71.5	77.8	72.0	
22 00 00	1 32 20	29.962	72.0	83.8	76.0	

JUNE 5, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 31 25	29.962	71.5	79.5	76.0	Maximum at 2 hours - 1 32 53
2 00 00	1 32 53	30.004	71.0	71.8	74.0	Minimum at 8 hours - 1 14 37
4 00 00	1 29 50	30.016	70.5	68 5	72.0	Mean - - - - 1 23 45
6 00 00	1 15 05	29.986	70.5	65.0	70.0	
8 00 00	1 14 37	29.986	70.5	65.0	70.0	
10 00 00	1 24 30	30.000	70.0	65.0	70.0	
Noon	1 23 15	30.024	70.5	65.0	70.0	
14 00 00	1 21 08	30.026	70.8	72.0	70.0	
16 00 00	1 26 10	29.996	71.5	78.0	72.0	
18 00 00	1 29 06	29.930	74.0	81.0	76.0	
20 00 00	1 30 00	29.904	75.5	83.5	78.2	
22 00 00	1 28 00	29.896	76.5	85.0	79.0	

OBSERVATIONS AT WASHINGTON—1842.

JUNE 6, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 30	29.886	78.0	85.5	80.0	Maximum at 20 hours - 1 31 19
2 00 00	1 27 15	29.872	75.2	76.0	80.0	Minimum at 14 hours - 1 22 13
4 00 00	1 26 23	29.868	75.0	73.0	78.0	Mean - - - - 1 26 46
6 00 00	1 27 51	29.868	75.0	70.0	76.0	
8 00 00	1 30 03	29.868	74.2	68.0	74.0	
10 00 00	1 25 48	29.918	74.0	67.0	70.0	
Noon	1 22 23	29.961	73.0	69.0	69.0	
14 00 00	1 22 13	29.992	73.5	71.0	70.0	
16 00 00	1 27 10	29.966	72.0	73.5	72.0	
18 00 00	1 30 08	29.960	72.0	77.0	76.0	
20 00 00	1 31 19	29.956	72.8	75.5	76.0	
22 00 00	1 28 38	29.956	73.0	79.5	76.5	

JUNE 7, 1842.

0 00 00	1 26 13	29.976	73.2	78.5	76.5	Maximum at 18 hours - 1 32 25
2 00 00	1 21 30	30.036	72.6	70.0	74.5	Minimum at 12 hours - 1 19 38
4 00 00	1 25 50	30.066	72.0	65.0	70.2	Mean - - - - 1 26 01.5
6 00 00	1 24 45	30.156	72.0	60.0	68.0	
8 00 00	1 24 45	30.186	72.0	60.0	68.0	
10 00 00	1 22 23	30.236	70.0	55.0	60.0	
Noon	1 19 38	30.336	70.0	55.0	58.0	
14 00 00	1 20 00	30.336	68.0	57.0	58.0	
16 00 00	1 22 53	30.376	68.0	72.0	60.0	
18 00 00	1 32 25	30.366	69.5	69.0	63.0	
20 00 00	1 29 35	30.356	69.0	76.0	66.0	
22 00 00	1 28 02	30.366	69,5	78.0	67.0	

JUNE 8, 1842.

0 00 00	1 22 52	30.366	68.5	68.0	67.0	Maximum at 18 hours - 1 34 09
2 00 00	1 22 46	30.366	68.0	64.0	67.0	Minimum at 12 hours - 1 21 28
4 00 00	1 26 11	30.422	69.5	54.0	62.0	Mean - - - - 1 27 48.5
6 00 00	1 31 44	30.422	70.0	53.0	60.0	
8 00 00	1 24 02	30.359	69.5	53.0	59.0	
10 00 00	1 28 05	30.386	68.5	54.0	59.0	
Noon	1 21 28	30.386	68.0	56.0	58.0	
14 00 00	1 22 12	30.386	67.5	57.0	58.0	
16 00 00	1 29 48	30.436	67.5	61.5	60,0	
18 00 00	1 34 09	30.404	67.5	65.5	61.0	
20 00 00	1 32 25	30.356	67.5	66.5	62.0	
22 00 00	1 31 12	30.322	67.5	67.0	64.0	

JUNE 9, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 18	30.286	67.5	65.0	64.0	Maximum at 22 hours - 1 32 53
2 00 00	1 27 11	30.246	66.5	63.0	64.0	Minimum at 12 hours - 1 18 39
4 00 00	1 23 29	30.236	70.0	63.0	64.0	Mean - - 1 25 46
6 00 00	1 25 00	30.186	68.0	63.0	64.0	
8 00 00	1 24 25	30.154	68.0	63.0	64.0	
10 00 00	1 23 12	30.136	68.0	63.0	64.0	
Noon	1 18 39	30.136	68.0	63.5	64.0	
14 00 00	1 19 13	30.136	68.0	66.0	64.0	
16 00 00	1 21 49	30.120	68.2	73.0	67.0	
18 00 00	1 27 01	30.090	68.6	76.0	69.0	
20 00 00	1 30 54	30.062	70.0	82.0	72.0	
22 00 00	1 32 53	30.014	72.0	81.6	74.0	

JUNE 10, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00		29.968	73.0	79.5	75.0	Maximum at 20 hours - 1 32 55
2 00 00	1 23 56	29.956	72.2	71.0	74.0	Minimum at 14 hours - 1 15 20
4 00 00	1 24 23	29.981	71.5	70.0	73.0	Mean - - - 1 24 07 5
6 00 00	1 24 53	29.911	71.0	70.0	72.0	
8 00 00	1 25 40	29.881	71.0	70.0	72.0	
10 00 00	1 20 47	29.878	71.0	66.0	71.0	
Noon	1 20 08	29.876	71.0	66.0	70.0	
14 00 00	1 15 20	29.878	71.0	75.5	70.0	
16 00 00	1 20 03	29.886	71.6	75.5	74.0	
18 00 00	1 28 10	29.886	71.5	76.5	76.0	
20 00 00	1 32 55	29.876	72.0	78.5	78.0	
22 00 00	1 30 57	29.866	72.0	80.0	78.0	

JUNE 11, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 26 40	29.878	72.0	75.6	78.0	Maximum at 20 hours - 1 30 53
2 00 00	1 26 48	29.936	71.0	67.2	74.0	Minimum at 14 hours - 1 20 16
4 00 00	1 25 20	29.991	71.0	61.5	70.0	Mean - - - 1 25 34.5
6 00 00	1 24 50	30.036	70.0	59.0	66.0	
8 00 00	1 24 50	30.036	70.0	58.0	64.0	
10 00 00	1 23 58	30.076	68.0	54.5	62 0	
Noon	1 20 38	30.136	67.0	54.5	60.0	
14 00 00	1 20 16	30.146	66.0	56.0	60.0	
16 00 00	1 24 18	30.220	66.0	55.5	60.0	
18 00 00	1 30 10	30.226	66.0	57.0	62.0	
20 00 00	1 30 53	30.186	66.0	61.5	62.0	
22 00 00	1 30 10	30.186	66.0	63.0	64.0	

OBSERVATIONS AT WASHINGTON—1842.

JUNE 12, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 57	30.208	66.5	66.0	66.0	Maximum at 22 hours - 1 30 10
2 00 00	1 26 50	30.236	66.0	61.5	64.0	Minimum at 14 hours - 1 19 58
4 00 00	1 25 57	30.306	65.5	53.0	60.0	Mean - - - 1 25 04
6 00 00	1 26 17	30.306	65.0	49.5	58.0	
8 00 00	1 25 39	30.288	65.0	48.0	56.0	
10 00 00	1 23 51	30.296	65.0	45.0	54.0	
Noon	1 20 09	30.358	64.5	45.0	54.0	
14 00 00	1 19 58	30.372	64.5	60.0	55.0	
16 00 00	1 23 48	30.286	65.2	70.0	60.0	
18 00 00	1 27 50	30.236	65.6	73.0	64.0	
20 00 00	1 30 01	30.219	66.0	77.0	67.8	
22 00 00	1 30 10	30.186	66.0	83.0	69.0	

JUNE 13, 1842.

0 00 00	1 26 14	30.156	66.6	75.0	71.0	Maximum at 18 hours - 1 33 07
2 00 00	1 25 39	30.156	66.0	64.0	71.0	Minimum at 12 hours - 1 19 42
4 00 00	1 21 47	30.156	66.8	60.0	66.0	Mean - - - 1 26 24.5
6 00 00	1 21 43	30.156	66.8	60.0	66.0	
8 00 00	1 23 18	30.088	66.5	60.0	64 0	
10 00 00	1 23 18	30.088	66.5	60.0	64.0	
Noon	1 19 42	30,088	66.5	64.0	68.0	
14 00 00	1 20 23	30.086	67.0	74.0	64.0	
16 00 00	1 25 52	30.086	69.0	77.0	68.0	
18 00 00	1 33 07	30.060	70.5	80.0	72.0	
20 00 00	1 30 11	30.058	70.5	85.5	76.0	
22 00 00	1 26 34	30.034	73.0	87.0	77.0	

JUNE 14, 1842.

0 00 00	1 24 19	30,090	71.5	73.0	76.0	Maximum at 20 hours - 1 29 55
2 00 00	1 23 39	30.150	70.6	68.0	73.5	Minimum at 16 hours - 1 22 33
4 00 00	1 22 59	30.184	70.6	67.0	72.0	Mean - - - - 1 26 14
6 00 00	1 24 58	30.146	70.5	66.0	70.0	
8 00 00	1 27 29	30.142	70.2	65.0	69.0	
10 00 00	1 26 30	30.155	70.0	64.0	66.0	
Noon	1 26 03	30.171	70.0	65.0	67.0	
14 00 00	1 24 51	30.182	70.0	66.5	67.0	
16 00 00	1 22 33	30.186	70.0	73.0	68.0	
18 00 00	1 27 55	30.182	71.0	77.5	70.0	
20 00 00	1 29 55	30.162	71.0	78.5	74.0	
22 00 00	1 27 32	30.162	71.0	75.5	74.0	

JUNE 15, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	Inches.	°	°	°	° ′ ″
0 00 00	1 27 01	30.156	71.0	71.5	72.5	Maximum at 20 hours - 1 30 31
2 00 00	1 25 20	30.146	70.6	68.0	70.6	Minimum at 14 hours - 1 21 55
4 00 00	1 24 53	30.146	71.0	66.0	70.0	Mean - - - 1 26 13
6 00 00	1 24 53	30.136	71.0	66.0	70.0	
8 00 00	1 25 42	30.136	71.0	66.0	70.0	
10 00 00	1 26 16	30.066	71.0	65.5	68.0	
Noon	1 22 29	30.066	70.2	67.0	68.0	
14 00 00	1 21 55	30.136	70.6	67.5	68.0	
16 00 00	1 24 30	30.114	71.0	71.5	70.0	
18 00 00	1 27 24	30.080	71.5	75.5	71.0	
20 00 00	1 30 31	30.048	72.0	78.5	72.0	
22 00 00	1 28 05	30.016	72.5	77.5	72.0	

JUNE 16, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 28 06	30.036	73.0	77.5	75.0	Maximum at 8 hours - 1 29 04
2 00 00	1 25 41	30.032	72.0	72.0	74.0	Minimum at 14 hours - 1 23 21
4 00 00	1 26 43	30.032	72.5	69.5	73.0	Mean - - - 1 26 12.5
6 00 00	1 26 09	30.044	72.5	67.0	72.0	
8 00 00	1 29 04	30.036	72.0	66.5	70.0	
10 00 00	1 26 40	30.036	72.0	67.0	70.0	
Noon	1 23 40	30.026	72.0	72.0	70.0	
14 00 00	1 23 21	30.036	72.0	74.0	70.0	
16 00 00	1 27 41	30.036	73.0	78.5	74.0	
18 00 00	1 27 25	29.988	74.0	84.0	77.0	
20 00 00	1 27 33	29.986	76.5	88.0	81.0	
22 00 00	1 28 06	29.978	75.0	86.0	81.0	

JUNE 17, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 28 10	29.978	74.0	71.0	76.0	Maximum at 22 hours - 1 30 53
2 00 00	1 28 17	29.978	73.5	69.0	74.0	Minimum at 12 hours - 1 21 56
4 00 00	1 28 04	29.988	73.5	69.0	74.0	Mean - - - - 1 26 24.5
6 00 00	1 26 02	29.987	73.5	69.0	72.0	
8 00 00	1 26 13	29.987	73.5	68.0	72.0	
10 00 00	1 25 00	29.987	73.5	70.0	71.0	
Noon	1 21 56	29.998	73.5	71.0	71.0	
14 00 00	1 22 30	29.999	73.5	74.0	72.0	
16 00 00	1 26 26	30.030	73.0	71.0	72.0	
18 00 00	1 29 18	30.032	73.2	75.0	72.0	
20 00 00	1 29 18	30.032	74.0	80.0	74.0	
22 00 00	1 30 53	30.032	74.0	77.5	74.0	

OBSERVATIONS AT WASHINGTON—1842.

JUNE 18, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 27 10	30.030	73.5	73.5	73.0	Maximum at 18 hours - 1 29 38
2 00 00	1 26 44	30.021	73.0	70.0	72.6	Minimum at 14 hours - 1 22 47
4 00 00	1 26 07	30.013	73.0	70.0	72.2	Mean - - - 1 26 12.5
6 00 00	1 26 18	30.006	73.0	69.0	72.0	
8 00 00	1 25 45	30.000	73.0	69.2	72.0	
10 00 00	1 24 43	29.991	73.0	72.0	72.0	
Noon	1 24 09	29.985	73.0	74.0	72.0	
14 00 00	1 22 47	29.978	73.2	75.0	72.0	
16 00 00	1 25 40	29 948	75.0	81.2	75.0	
18 00 00	1 29 38	29.936	76.6	84.0	78.0	
20 00 00	1 28 40	29.886	77.0	86.0	78.0	
22 00 00	1 27 38	29.876	77.5	87.2	80.0	

JUNE 19, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 27 38	29.856	77.5	84.0	80.5	Maximum at 22 hours - 1 38 26
2 00 00	1 26 40	29.856	76.0	75.0	78.5	Minimum at 12 hours - 1 19 35
4 00 00	1 24 37	29.866	76.0	74.0	76.2	Mean - - - 1 29 00.5
6 00 00	1 24 23	29.866	76.0	74.0	76.0	
8 00 00	1 23 54	29.866	76.0	74.0	76.0	
10 00 00	1 22 00	29.876	75.5	70.0	72.5	
Noon	1 19 35	29.882	75.5	71.0	72.2	
14 00 00	1 20 45	29.886	75.5	75.0	72.5	
16 00 00	1 21 51	29.908	76.0	81.8	78.0	
18 00 00	1 23 51	29.886	76.5	87.5	80.0	
20 00 00	1 35 10	29.860	79.5	87.5	82.0	
22 00 00	1 38 26	29.836	79.5	88.0	81.5	

JUNE 20, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Attached.	Air.	Magnetic observatory.	
0 00 00	1 28 34	29.886	78.0	70.0	80.0	Maximum at 20 hours - 1 31 50
2 00 00	1 26 57	29.936	77.5	71.0	76.0	Minimum at 14 hours - 1 24 39
4 00 00	1 26 57	29.976	77.5	71.0	76.0	Mean - - - 1 28 14.5
6 00 00	1 26 50	29.986	76.8	71.0	74.0	
8 00 00	1 27 20	29.986	77.5	70.0	74.0	
10 00 00	1 27 43	29.980	77.5	70.0	74.0	
Noon	1 24 51	30.036	77.5	70.0	74.0	
14 00 00	1 24 39	30.086	77.5	70.0	74.0	
16 00 00	1 26 27	30.040	74.0	72.0	72.0	
18 00 00	1 25 51	30.046	74.5	79.5	73.0	
20 00 00	1 31 50	30.087	74.5	80.0	73.0	
22 00 00	1 30 23	30.036	75.0	81.0	74.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JUNE 21, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 25 36	30.036	75.5	82.0	75.0	Maximum at 20 hours - 1 32 38
2 00 00	1 26 05	30.041	75.5	72.0	75.0	Minimum at 14 hours - 1 22 46
4 00 00	1 27 44	30.136	75.0	70.0	74.0	Mean - - - 1 27 42
6 00 00	1 26 12	30.136	75.0	69.0	73.0	
8 00 00	1 26 01	30.136	75.0	69.0	72.5	
10 00 00	1 26 01	30.136	75.0	68.0	72.0	
Noon	1 23 50	30.176	74.5	71.0	72.0	
14 00 00	1 22 46	30.186	74.5	79.0	72.0	
16 00 00	1 26 38	30.196	74.6	75.0	74.0	
18 00 00	1 31 43	30.196	75.0	77.5	77.0	
20 00 00	1 32 38	30.156	75.5	80.0	80.0	
22 00 00	1 29 45	30.154	76.2	83.0	81.0	
JUNE 22, 1842.						
0 00 00	1 27 43	30.146	78.0	81.0	80.0	Maximum at 20 hours - 1 32 03
2 00 00	1 25 39	30.140	77.5	80.0	79.0	Minimum at 14 hours - 1 22 02
4 00 00	1 24 43	30.144	76 0	72.0	71.0	Mean - - - 1 27 02.5
6 00 00	1 27 17	30.136	75.5	70.0	75.0	
8 00 00	1 24 35	30.112	75.0	71.0	73.0	
10 00 00	1 22 37	30.062	75.0	72.0	71.0	
Noon	1 22 59	30.016	75.0	73.0	72.0	
14 00 00	1 22 02	30.016	75.0	77.5	73.0	
16 00 00	1 25 43	30.066	76.2	81.0	78.5	
18 00 00	1 28 38	30.056	77.0	82.5	82.0	
20 00 00	1 32 03	30.046	79.0	85.0	86.0	
22 00 00	1 30 44	29.990	80.0	80.0	85.3	
JUNE 23, 1842.						
0 00 00	1 29 01	30.006	81.0	80.0	86.7	Maximum at 20 hours - 1 31 52
2 00 00	1 26 47	30.034	79.4	79.0	85.0	Minimum at 6 hours - 1 16 41
4 00 00	1 23 48	29.946	78.2	76.5	82.0	Mean - - - 1 24 16.5
6 00 00	1 16 41	29 936	78.0	74.0	80.0	
8 00 00	1 26 11	29.936	78.0	74.0	79.5	
10 00 00	1 29 36	29.886	78.0	72.2	79.5	
Noon	1 21 52	29.873	78.0	73.0	79.8	
14 00 00	1 24 23	29.866	77.2	80.0	80.5	
16 00 00	1 25 56	29.916	77.5	82.0	81.8	
18 00 00	1 26 32	29 900	78.0	81.5	83.0	
20 00 00	1 31 52	29.846	77.5	78.0	84.0	
22 00 00	1 31 22	29.824	78.0	78.0	84.0	

OBSERVATIONS AT WASHINGTON—1842.

JUNE 24, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 20	29.886	78.5	78.0	80.0	Maximum at 8 hours - 1 33 58
2 00 00	1 28 28	29.886	77.0	70.0	76.0	Minimum at 14 hours - 1 24 18
4 00 00	1 26 45	29.886	77.0	68.0	76.0	Mean - - - 1 29 08
6 00 00	1 28 28	29.882	77.0	68.0	74.0	
8 00 00	1 33 58	29.882	77.0	68.0	72.0	
10 00 00	1 26 05	30.010	77.0	68.0	72.0	
Noon	1 25 08	30.036	77.0	65.0	70.0	
14 00 00	1 24 18	30.036	77.0	68.0	72.0	
16 00 00	1 27 01	30.076	74.5	74.0	71.0	
18 00 00	1 29 55	30.076	75.5	79.0	71.0	
20 00 00	1 29 48	30.056	75.5	82.0	74.0	
22 00 00	1 27 54	30.036	75.5	81.0	76.0	

JUNE 25, 1842.

0 00 00	1 27 06	30.036	75.0	84.0	77.0	Max. at 18 and 20 hours 1 29 44
2 00 00	1 26 09	30.046	75.0	70.0	76.0	Minimum at 14 hours - 1 20 12
4 00 00	1 26 11	30.056	75.0	68.0	74.0	Mean - - - 1 24 58
6 00 00	1 25 55	30.046	74.0	66.0	73.0	
8 00 00	1 25 55	30.046	74.0	65.0	71.0	
10 00 00	1 26 55	30.046	74.0	66.0	70.0	
Noon	1 23 47	30.040	74.5	69.0	69.0	
14 00 00	1 20 12	30.056	74.0	80.0	70.0	
16 00 00	1 23 51	30.078	73.2	77.5	72.0	
18 00 00	1 29 44	30.064	73.2	75.0	73.0	
20 00 00	1 29 44	30.012	73.2	80.5	74.0	
22 00 00	1 27 38	30.010	73.0	75.0	74.0	

JUNE 26, 1842.

0 00 00	1 27 37	29.942	73.2	74.0	74.0	Maximum at 20 hours - 1 32 02
2 00 00	1 22 58	29.940	73.1	72.5	74.0	Minimum at 2 hours - 1 22 58
4 00 00	1 23 34	29.898	73.0	75.0	73.0	Mean - - - 1 27 30
6 00 00	1 24 41	29.888	73.0	78.0	72.0	
8 00 00	1 25 44	29.836	73.0	78.0	72.0	
10 00 00	1 25 36	29.821	73.0	78.2	71.6	
Noon	1 24 13	29.811	73.4	78.6	72.0	
14 00 00	1 23 40	29.802	74.0	79.0	73.0	
16 00 00	1 27 12	29 820	75.0	86.0	78.0	
18 00 00	1 30 50	29.820	76.0	84.5	81.0	
20 00 00	1 32 02	29.804	76.0	84.0	82.0	
22 00 00	1 27 11	29.778	77.0	91.8	81.0	

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers.			
			Attached.	Air.	Magnetic observatory.	
JUNE 27, 1842.						
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 04	29.786	78.0	90.4	86.0	Maximum at 20 hours - 1 29 59
2 00 00	1 25 58	29.786	77.0	82.0	85.0	Minimum at 14 hours - 1 22 32
4 00 00	1 26 11	29.786	77.0	76.0	82.0	Mean - - - 1 26 15.5
6 00 00	1 24 35	29.800	76.0	72.0	79.0	
8 00 00						
10 00 00	1 25 36	29.800	76.0	69.5	74.0	
Noon	1 23 35	29.836	76.0	70.0	71.3	
14 00 00	1 22 32	29.864	77.0	81.5	71.0	
16 00 00	1 24 23	29.856	77.0	82.6	80.0	
18 00 00	1 29 24	29.856	77.0	83.5	82.0	
20 00 00	1 29 59	29.836	77.2	85.5	84.0	
22 00 00	1 28 43	29.846	78 0	86.0	84.0	
JUNE 28, 1842.						
0 00 00	1 26 08	29.866	79.0	85.0	84.0	Maximum at 18 hours - 1 30 04
2 00 00	1 26 03	29.886	78.0	77.0	82.0	Minimum at 14 hours - 1 20 16
4 00 00	1 25 05	29.891	77.0	74.5	78.5	Mean - - - 1 25 10
6 00 00	1 24 19	29.966	77.0	70.0	76.0	
8 00 00	1 25 40	29.974	77.0	67.0	74.0	
10 00 00	1 23 58	29.980	77.0	67.0	72.0	
Noon	1 21 40	29.980	77.0	67.5	70.0	
14 00 00	1 20 16	29.986	76.0	78.0	72.0	
16 00 00	1 24 14	29.995	76.5	92.0	77.0	
18 00 00	1 30 04	29.986	77.0	84.0	80.0	
20 00 00	1 29 45	29.986	77.5	87.0	82.0	
22 00 00	1 27 35	29.939	81.0	94.0	84.0	
JUNE 29, 1842.						
0 00 00	1 26 22	29.939	81.0	85.0	84.0	Maximum at 20 hours - 1 30 07
2 00 00	1 25 42	29.940	79.0	76.0	81.0	Minimum at 14 hours - 1 20 19
4 00 00	1 23 46	29.945	78.5	73.0	79.0	Mean - - - 1 25 13
6 00 00	1 24 17	29.945	78.5	70.5	77.0	
8 00 00	1 25 43	29.945	78.5	68.0	76.0	
10 00 00	1 26 46	30.036	78.0	68.0	74.0	
Noon	1 21 50	30.036	77.5	75.0	73.0	
14 00 00	1 20 19	30.056	77.5	87.0	74.0	
16 00 00	1 23 21	30.102	79.0	83.0	79.2	
18 00 00	1 27 39	30.116	81.2	86.5	84.0	
20 00 00	1 30 07	30.120	83.6	88.5	88.0	
22 00 00	1 28 31	30.102	84.5	92.0	88.0	

OBSERVATIONS AT WASHINGTON—1842.

JUNE 30, 1842.

Mean time, Göttingen.	Declination from true meridian.	Barometer.	Thermometers. Attached.	Thermometers. Air.	Thermometers. Magnetic observatory.	
h. m. s.	° ′ ″	*Inches.*	°	°	°	° ′ ″
0 00 00	1 26 34	30.116	85.0	91.0	88.0	Maximum at 20 hours - 1 31 43
2 00 00	1 25 41	30.116	83.0	85.0	86.0	Minimum at 12 hours - 1 21 13
4 00 00	1 25 08	30.116	81.0	78.0	85.0	Mean - - - 1 26 28
6 00 00	1 23 40	30.116	80.0	75.0	82.0	
8 00 00	1 24 38	30.116	80.0	74.0	81.0	
10 00 00	1 22 35	30.132	79.0	74.0	78.0	
Noon	1 21 13	30.140	79.0	74.5	76.0	
14 00 00	1 21 47	30.136	78.2	85.0	78.0	
16 00 00	1 24 33	30.136	81.0	87.5	82.0	
18 00 00	1 30 54	30.120	82.5	89.5	84.0	
20 00 00	1 31 43	30.076	84.5	92.0	87.0	
22 00 00	1 29 06	30.060	86.5	97.0	89.0	

TERM DAY OBSERVATIONS

OF THE

DECLINATION AT WASHINGTON,

FROM SEPTEMBER, 1840, TO JUNE, 1842.

TERM DAY OBSERVATIONS AT WASHINGTON—1840.

SEPTEMBER 23 and 24, 1840.

Declination magnetometer.

M. T., Gött.	Noon.			1 P. M.			2 P. M.			3 P. M.			4 P. M.			5 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0				1	16	25	1	16	29	1	20	06	1	22	16	1	26	23
5				1	16	25	1	15	50	1	20	36	1	23	11	1	26	19
10	1	14	09	1	16	04	1	15	43	1	20	51	1	23	11	1	25	31
15	1	14	09	1	17	17	1	16	29	1	21	00	1	21	44	1	25	30
20	1	15	17	1	17	09	1	17	07	1	20	31	1	22	23	1	25	21
25	1	16	09	1	17	09	1	17	34	1	20	24	1	22	52	1	25	32
30	1	16	09	1	17	09	1	17	27	1	20	49	1	22	52	1	24	47
35	1	15	22	1	16	29	1	19	12	1	20	44	1	23	18	1	24	47
40	1	16	16	1	16	19	1	18	25	1	21	02	1	23	11	1	24	39
45	1	15	59	1	16	59	1	18	43	1	20	19	1	24	25	1	24	54
50	1	15	19	1	16	59	1	20	10	1	20	15	1	24	25	1	24	54
55	1	15	24	1	16	43	1	19	01	1	21	21	1	25	46	1	24	33
	6 P. M.			7 P. M.			8 P. M.			9 P. M.			10 P. M.			11 P. M.		
0	1	24	39	1	23	25	1	20	47	1	19	42	1	12	22	1	06	42
5	1	24	24	1	22	19	1	19	17	1	19	35	1	10	46	1	10	15
10	1	24	07	1	22	36	1	19	18	1	19	27	1	10	01	1	10	59
15	1	23	21	1	22	48	1	19	14	1	19	27	1	08	40	1	13	01
20	1	22	49	1	23	07	1	19	06	1	19	48	1	09	09	1	15	27
25	1	23	17	1	23	17	1	19	22	1	19	41	1	09	33	1	16	48
30	1	22	37	1	23	17	1	20	17	1	19	13	1	07	07	1	17	37
35	1	21	27	1	22	45	1	20	13	1	19	09	1	06	47	1	18	08
40	1	21	02	1	22	31	1	20	13	1	19	07	1	04	59	1	19	19
45	1	20	48	1	22	31	1	20	47	1	19	07	1	04	10	1	20	09
50	1	21	49	1	21	47	1	19	47	1	15	39	1	05	03	1	19	49
55	1	22	49	1	21	52	1	19	42	1	12	39	1	05	05	1	20	46
	Midnight.			1 A. M.			2 A. M.			3 A. M.			4 A. M.			5 A. M.		
0	1	21	09	1	21	24	1	12	29	1	17	31	1	20	54	1	18	19
5	1	21	09	1	20	21	1	14	19	1	17	20	1	18	56	1	17	53
10	1	20	31	1	19	11	1	13	31	1	17	37	1	17	35	1	17	53
15	1	20	24	1	18	13	1	13	31	1	18	49	1	18	36	1	17	49
20	1	20	24	1	17	23	1	13	14	1	19	14	1	20	39	1	17	31
25	1	19	39	1	16	20	1	15	19	1	19	39	1	20	07	1	17	39
30	1	19	36	1	15	19	1	13	29	1	19	39	1	20	09	1	18	24
35	1	19	51	1	15	01	1	14	09	1	19	17	1	19	45	1	19	13
40	1	20	41	1	12	06	1	15	46	1	20	34	1	20	42	1	18	35
45	1	20	49	1	12	06	1	16	19	1	22	58	1	20	42	1	18	15
50	1	21	02	1	08	59	1	16	49	1	23	23	1	20	29	1	18	14
55	1	21	02	1	07	59	1	17	21	1	22	20	1	18	52	1	18	09

SEPTEMBER 23 and 24, 1840.

M. T., Gött.	Declination magnetometer.																	
	6 A. M.			7 A. M.			8 A. M.			9 A. M.			10 A. M.			11 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	18	59	1	20	17	1	20	19	1	17	20	1	25	26	1	28	29
5	1	19	19	1	20	32	1	20	10	1	18	13	1	25	28	1	27	57
10	1	19	42	1	21	09	1	19	53	1	19	27	1	26	09	1	26	29
15	1	20	18	1	21	39	1	19	21	1	20	11	1	26	18	1	23	29
20	1	20	21	1	22	59	1	18	54	1	21	19	1	27	25	1	23	29
25	1	20	02	1	23	39	1	18	39	1	21	21	1	28	29	1	23	29
30	1	19	16	1	23	39	1	18	24	1	22	43	1	29	29	1	23	29
35	1	19	29	1	22	57	1	18	21	1	23	02				1	23	19
40	1	22	06	1	22	39	1	18	21	1	23	11	1	29	44	1	22	49
45	1	20	42	1	21	55	1	18	21	1	23	42	1	29	49	1	22	44
50	1	22	09	1	21	55	1	17	27	1	24	07	1	30	44	1	22	29
55	1	22	00	1	21	05	1	17	14	1	25	16	1	29	59	1	25	40

	Noon.			1 P. M.			2 P. M.			3 P. M.			4 P. M.			5 P. M.		
0	1	25	12	1	27	24	1	18	47	1	22	04	1	24	14	1	24	29
5	1	25	14	1	27	09	1	19	29	1	22	44	1	25	19	1	24	29
10	1	25	09	1	26	37	1	19	34	1	23	49	1	25	06	1	24	14
15	1	26	39	1	26	13	1	20	06	1	25	29	1	25	06	1	23	39
20	1	27	37	1	25	31	1	18	35	1	23	44	1	25	51	1	23	39
25	1	28	29	1	23	27	1	18	35	1	24	29	1	26	29	1	23	49
30	1	29	00	1	21	52	1	18	14	1	25	24	1	27	24	1	23	49
35	1	28	41	1	20	51	1	17	44	1	25	49	1	28	04	1	23	49
40	1	26	39	1	19	09	1	18	39	1	25	49	1	27	29	1	23	49
45	1	26	44	1	18	21	1	18	39	1	25	49	1	26	04	1	23	49
50	1	27	24	1	16	59	1	19	19	1	25	49	1	24	39	1	23	49
55	1	27	24	1	17	26	1	20	59	1	24	24	1	24	29	1	23	49

	6 P. M.			7 P. M.			8 P. M.			9 P. M.			10 P. M.			11 P. M.		
0	1	23	49	1	24	29	1	22	58	1	14	51	1	17	47	1	17	37
5	1	23	59	1	24	29	1	22	29	1	15	39	1	17	47			
10	1	24	19	1	24	29	1	21	14	1	16	54	1	17	47			
15	1	23	54	1	24	29	1	22	19	1	17	16	1	17	47	1	10	29
20	1	24	02	1	23	39	1	20	49	1	17	19	1	17	21			
25	1	24	02	1	23	36	1	19	48	1	17	43	1	17	20	1	11	29
30	1	24	02	1	24	41	1	18	13	1	18	04	1	17	20	1	10	44
35	1	24	02	1	24	17	1	17	24	1	18	26	1	17	49	1	11	09
40	1	23	44	1	24	17	1	16	29	1	18	26	1	17	37			
45	1	24	14	1	24	15	1	15	54	1	18	26	1	17	37	1	11	34
50	1	24	14	1	23	46	1	15	34	1	17	59	1	17	37			
55	1	24	14	1	23	32	1	14	54	1	17	58	1	17	37	1	00	00

OCTOBER 21 and 22, 1840.

Declination magnetometer.

M. T., Gött.	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	24	04	1	20	08	1	21	44	1	13	30	1	18	10	1	15	58
5	1	24	02	1	21	36	1	21	53	1	15	44	1	18	10	1	15	58
10	1	24	01	1	21	36	1	18	59	1	14	44	1	18	10	1	19	37
15	1	24	01	1	21	36	1	18	59	1	15	48	1	18	10	1	19	37
20	1	24	01	1	19	34	1	18	59	1	15	48	1	18	12	1	19	37
25	1	24	01	1	19	34	1	18	59	1	15	48	1	18	12	1	19	37
30	1	23	56	1	20	23	1	16	20	1	16	19	1	19	34	1	18	27
35	1	21	54	1	20	23	1	16	20	1	16	19	1	18	13	1	18	27
40	1	21	02	1	20	23	1	17	05	1	16	19	1	18	13	1	18	27
45	1	18	25	1	20	23	1	15	00	1	17	15	1	16	59	1	18	47
50	1	18	25	1	21	49	1	13	30	1	17	15	1	16	59	1	17	06
55	1	19	21	1	21	49	1	13	30	1	17	39	1	15	53	1	17	06

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	14	48	1	18	55	1	17	01	1	18	38	1	16	50	1	23	49
5	1	11	37	1	17	48	1	16	57	1	18	38	1	18	41	1	23	49
10	1	11	37	1	17	43	1	16	57	1	18	38	1	18	41	1	23	49
15	1	11	37	1	17	43	1	16	57	1	18	38	1	19	32	1	21	20
20	1	16	59	1	17	49	1	17	16	1	18	38	1	19	49	1	21	36
25	1	21	53	1	18	57	1	17	34	1	18	38	1	20	56	1	21	36
30	1	21	58	1	18	57	1	17	34	1	18	10	1	21	05	1	21	22
35	1	23	53	1	18	57	1	17	34	1	16	53	1	22	18	1	21	22
40	1	22	00	1	18	57	1	17	34	1	16	58	1	22	05	1	20	20
45	1	22	00	1	18	57	1	17	34	1	16	53	1	24	37	1	19	01
50	1	20	16	1	18	57	1	18	49	1	16	53	1	23	49	1	19	01
55	1	20	49	1	16	29	1	19	08	1	16	58	1	23	49	1	18	36

	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	18	18	1	19	17	1	17	44	1	16	10	1	15	36	1	17	03
5	1	18	18	1	19	17	1	17	48	1	16	09	1	15	39	1	17	26
10	1	18	18	1	19	02	1	17	48	1	16	09	1	15	39	1	17	51
15	1	18	32	1	19	02	1	17	48	1	16	36	1	15	39	1	18	26
20	1	18	38	1	19	02	1	17	48	1	16	48	1	15	45	1	19	06
25	1	19	03	1	19	02	1	17	21	1	16	17	1	15	45	1	19	17
30	1	19	17	1	19	02	1	16	55	1	16	17	1	15	29	1	20	24
35	1	19	17	1	19	02	1	16	55	1	16	17	1	15	48	1	20	59
40	1	19	17	1	19	02	1	16	55	1	16	23	1	15	17	1	21	03
45	1	19	17	1	19	02	1	16	55	1	16	28	1	16	01	1	21	03
50	1	19	17	1	18	18	1	16	23	1	15	39	1	16	06	1	20	43
55	1	19	17	1	18	26	1	16	23	1	15	39	1	16	33	1	20	55

OCTOBER 21 and 22, 1840.

Declination magnetometer.

M. T., Gött.	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	20	59	1	25	44	1	23	02	1	22	28	1	23	21	1	23	53
5	1	21	29	1	26	03	1	23	57	1	22	23	1	23	16	1	23	53
10	1	22	46	1	26	08	1	23	57	1	22	59	1	23	50	1	23	30
15	1	23	58	1	26	08	1	23	50	1	22	41	1	23	50	1	23	19
20	1	23	43	1	25	18	1	23	48	1	22	38	1	23	50	1	23	19
25	1	23	23	1	24	54	1	23	56	1	22	48	1	23	58	1	23	13
30	1	23	50	1	24	24	1	23	56	1	22	50	1	23	54	1	23	01
35	1	23	41	1	24	23	1	23	21	1	22	50	1	23	54	1	22	46
40	1	23	53	1	24	23	1	22	20	1	23	00	1	24	12	1	22	44
45	1	24	11	1	24	21	1	22	15	1	23	03	1	24	00	1	22	41
50	1	24	53	1	23	56	1	22	27	1	23	22	1	24	09	1	22	23
55	1	24	55	1	23	11	1	22	32	1	23	20	1	24	06	1	22	11

NOVEMBER 27 and 28, 1840.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	23	42	1	21	07	1	22	12	1	21	32	1	20	23	1	20	28
5	1	23	42	1	22	50	1	22	32	1	21	14	1	20	23	1	20	41
10	1	23	42	1	20	58	1	22	32	1	21	14	1	20	11	1	20	41
15	1	23	53	1	21	01	1	22	12	1	20	55	1	19	56	1	20	41
20	1	24	11	1	21	43	1	22	12	1	20	34	1	19	56	1	20	43
25	1	23	56	1	21	38	1	21	57	1	20	34	1	20	14	1	20	43
30	1	25	07	1	21	38	1	21	47	1	20	18	1	20	14	1	20	43
35	1	24	24	1	21	38	1	21	34	1	20	18	1	20	14	1	20	43
40	1	24	25	1	21	43	1	21	23	1	20	23	1	20	14	1	20	43
45	1	23	52	1	21	03	1	21	23	1	20	23	1	20	20	1	20	43
50	1	22	54	1	21	28	1	21	42	1	20	23	1	20	28	1	20	43
55	1	21	21	1	21	34	1	21	32	1	20	28	1	20	28	1	20	43

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	20	43	1	20	11	1	21	03	1	20	54	1	20	02	1	18	52
5	1	20	34	1	20	11	1	20	28	1	20	54	1	19	52	1	18	52
10	1	20	01	1	20	23	1	20	28	1	20	54	1	19	28	1	18	52
15	1	20	01	1	20	23	1	20	28	1	20	54	1	19	28	1	18	52
20	1	20	01	1	20	35	1	20	28	1	21	06	1	18	49	1	18	54
25	1	20	01	1	20	35	1	20	28	1	21	06	1	18	49	1	18	54
30	1	20	01	1	20	35	1	20	24	1	20	20	1	18	49	1	18	54
35	1	20	01	1	20	35	1	20	24	1	20	20	1	18	48	1	18	54
40	1	20	01	1	20	35	1	20	24	1	20	20	1	18	48	1	18	36
45	1	20	01	1	20	35	1	20	24	1	20	12	1	18	48	1	18	19
50	1	19	47	1	20	35	1	19	57	1	20	12	1	18	48	1	18	05
55	1	20	11	1	21	03	1	20	54	1	20	12	1	18	48	1	18	05

TERM DAY OBSERVATIONS AT WASHINGTON—1840.

NOVEMBER 27 and 28, 1840.

Declination magnetometer.

M. T., Gött.	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	18	05	1	19	05	1	17	55	1	19	35	1	17	56	1	18	08
5	1	18	05	1	19	05	1	17	55	1	18	52	1	17	54	1	17	25
10	1	18	05	1	19	05	1	17	55	1	19	33	1	17	54	1	18	50
15	1	18	08	1	21	02	1	17	55	1	19	44	1	17	14	1	19	19
20	1	18	08	1	20	58	1	18	38	1	20	25	1	16	10	1	21	25
25	1	18	08	1	20	10	1	18	36	1	20	25	1	16	50	1	21	25
30	1	18	08	1	20	16	1	18	17	1	20	37	1	17	02	1	22	04
35	1	18	23	1	19	32	1	19	38	1	17	33	1	17	11	1	22	25
40	1	18	23	1	17	55	1	19	33	1	16	25	1	16	27	1	22	25
45	1	18	23	1	17	55	1	19	25	1	17	26	1	17	06	1	22	25
50	1	18	16	1	17	55	1	21	42	1	17	26	1	16	55	1	23	37
55	1	19	05	1	17	55	1	20	37	1	17	26	1	17	43	1	23	58

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	23	10	1	22	24	1	24	17	1	26	44	1	25	55	1	26	05
5	1	22	37	1	22	20	1	24	29	1	27	15	1	26	02	1	25	57
10	1	22	39	1	21	49	1	25	15	1	26	33	1	25	31	1	26	15
15	1	22	54	1	21	51	1	23	59	1	26	55	1	25	12	1	25	56
20	1	22	02	1	22	15	1	23	56	1	27	06	1	25	12	1	25	22
25	1	22	25	1	22	46	1	24	07	1	27	05	1	25	16	1	25	15
30	1	22	35	1	22	32	1	25	12	1	26	52	1	24	23	1	24	12
35	1	22	28	1	22	51	1	25	18	1	27	00	1	25	36	1	23	53
40	1	23	06	1	23	34	1	25	43	1	26	36	1	25	28	1	23	20
45	1	23	13	1	24	32	1	26	36	1	26	49	1	25	26	1	23	27
50	1	22	37	1	24	09	1	27	15	1	26	13	1	25	37	1	22	42
55	1	23	16	1	23	25	1	27	19	1	26	04	1	25	27	1	22	09

DECEMBER 23 and 24, 1840.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	27	10	1	27	32	1	27	02	1	20	41	1	22	26	1	19	54
5	1	27	04	1	26	55	1	27	08	1	17	56	1	25	13	1	22	14
10	1	27	07	1	25	27	1	25	38	1	17	12	1	27	10	1	22	14
15	1	27	39	1	24	55	1	25	26	1	17	59	1	28	44	1	19	40
20	1	27	58	1	25	04	1	25	57	1	19	11	1	28	19	1	17	18
25	1	27	58	1	25	38	1	24	44	1	20	22	1	25	49	1	17	18
30	1	27	49	1	26	42	1	25	19	1	19	05	1	24	42	1	17	18
35	1	27	22	1	26	52	1	26	16	1	17	54	1	24	53	1	19	10
40	1	27	31	1	26	08	1	26	16	1	18	13	1	24	32	1	19	47
45	1	27	31	1	24	54	1	25	51	1	20	05	1	22	27	1	19	47
50	1	27	52	1	25	36	1	25	24	1	20	51	1	20	59	1	18	34
55	1	28	06	1	26	44	1	23	44	1	21	05	1	20	14	1	19	11

TERM DAY OBSERVATIONS AT WASHINGTON—1840.

DECEMBER 23 and 24, 1840.

M. T., Gött.	Declination magnetometer.																	
	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	19	33	1	21	38	1	19	30	1	25	18	1	22	46	1	22	56
5	1	20	40	1	20	52	1	19	22	1	23	09	1	22	59	1	23	12
10	1	20	40	1	19	50	1	19	22	1	22	07	1	23	15	1	23	12
15	1	21	25	1	19	21	1	18	25	1	21	40	1	23	58	1	23	12
20	1	21	25	1	19	21	1	18	25	1	21	36	1	23	20	1	23	12
25	1	21	10	1	19	07	1	19	27	1	21	36	1	22	30	1	22	44
30	1	21	19	1	19	07	1	21	41	1	21	45	1	22	30	1	22	20
35	1	22	00	1	19	30	1	23	31	1	22	46	1	22	52	1	22	01
40	1	22	13	1	19	30	1	24	14	1	22	46	1	22	41	1	22	01
45	1	22	13	1	19	30	1	26	14	1	22	46	1	21	47	1	22	01
50	1	22	13	1	19	30	1	27	53	1	22	46	1	21	47	1	22	01
55	1	21	38	1	19	30	1	27	16	1	22	46	1	22	56	1	22	01

	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	22	34	1	22	33	1	23	36	1	21	25	1	21	14	Excessive vibration.		
5	1	22	10	1	22	33	1	23	31	1	20	45	1	21	14			
10	1	21	54	1	22	33	1	23	31	1	20	45	1	19	16			
15	1	20	52	1	23	32	1	22	25	1	20	45	1	18	42			
20	1	19	52	1	25	07	1	22	25	1	21	20	1	17	56			
25	1	20	42	1	24	52	1	22	25	1	20	30	1	17	56			
30	1	21	29	1	23	47	1	22	19	1	20	00	1	18	49			
35	1	23	31	1	23	47	1	23	20	1	19	43	1	20	06			
40	1	23	58	1	23	47	1	23	20	1	19	43	1	19	58			
45	1	23	56	1	24	08	1	23	20	1	19	43	1	19	58			
50	1	23	56	1	24	55	1	22	24	1	21	16	1	19	58			
55	1	23	56	1	23	36	1	22	02	1	20	44	1	19	58			

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0							1	25	21	1	25	17	1	27	14	1	25	09
5							1	25	18	1	25	11	1	27	14	1	25	09
10				1	21	49	1	25	20	1	24	21	1	27	14	1	25	09
15				1	22	31	1	25	20	1	24	31	1	27	14	1	25	09
20				1	22	37	1	25	50	1	24	26	1	26	19	1	25	09
25	1	19	44	1	22	29	1	25	51	1	23	56	1	26	19	1	24	14
30	1	20	04	1	23	12	1	25	37	1	25	20	1	26	19	1	24	14
35	1	20	15	1	23	47	1	25	37	1	25	11	1	26	19	1	24	14
40				1	23	25	1	25	23	1	25	30	1	26	19	1	24	14
45				1	24	11	1	25	28	1	26	09	1	26	19	1	24	05
50				1	24	08	1	25	23	1	26	30	1	26	19	1	23	45
55				1	24	49	1	24	59	1	27	01	1	26	19	1	23	45

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

M. T., Gött.	Declination magnetometer.																	
	JANUARY 20 and 21, 1841.																	
	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	23	59	1	20	59	1	21	20	1	21	05	1	19	49	1	19	41
5	1	23	54	1	21	11	1	21	08	1	21	05	1	19	50	1	18	24
10	1	23	54	1	21	11	1	21	08	1	20	20	1	19	50	1	17	31
15	1	22	18	1	21	11	1	21	08	1	20	20	1	19	54	1	16	16
20	1	20	31	1	21	11	1	21	08	1	20	20	1	19	57	1	14	49
25	1	20	14	1	21	11	1	21	08	1	20	10	1	19	57	1	14	01
30	1	20	02	1	21	11	1	21	08	1	19	41	1	20	09	1	13	59
35	1	19	42	1	21	11	1	21	08	1	19	41	1	20	58	1	13	59
40	1	19	29	1	21	44	1	21	08	1	19	41	1	20	53	1	16	21
45	1	19	22	1	21	44	1	21	08	1	19	41	1	19	32	1	17	24
50	1	19	54	1	21	20	1	21	08	1	19	34	1	19	32	1	17	31
55	1	20	09	1	21	20	1	21	05	1	19	49	1	19	32	1	17	36
	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	17	45	1	20	25	1	20	39	1	20	34	1	19	54	1	20	37
5	1	18	05	1	20	41	1	20	39	1	20	10	1	19	54	1	20	37
10	1	18	32	1	20	41	1	20	39	1	20	10	1	19	54	1	20	47
15	1	19	32	1	20	00	1	20	39	1	20	10	1	19	54	1	20	47
20	1	20	00	1	20	16	1	20	39	1	19	59	1	19	47	1	20	47
25	1	20	22	1	20	23	1	20	39	1	19	52	1	19	47	1	20	47
30	1	20	37	1	20	23	1	20	39	1	19	55	1	19	54	1	20	28
35	1	20	43	1	20	30	1	20	39	1	19	55	1	19	40	1	20	28
40	1	20	35	1	20	39	1	20	39	1	19	41	1	19	40	1	20	28
45	1	20	18	1	20	39	1	20	56	1	19	41	1	20	13	1	20	18
50	1	19	59	1	20	39	1	20	34	1	19	41	1	20	23	1	20	09
55	1	20	06	1	20	39	1	20	34	1	19	44	1	20	37	1	20	09
	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	20	09	1	20	12	1	19	50	1	19	18	1	18	47	1	17	49
5	1	20	09	1	20	12	1	19	50	1	19	18	1	18	47	1	17	49
10	1	20	09	1	20	12	1	19	50	1	19	18	1	18	47	1	17	49
15	1	20	09	1	20	12	1	19	50	1	19	18	1	18	47	1	17	49
20	1	20	09	1	20	12	1	19	50	1	18	57	1	18	47	1	17	37
25	1	20	09	1	20	12	1	19	50	1	18	57	1	18	36	1	17	37
30	1	20	14	1	20	12	1	19	50	1	18	49	1	17	59	1	17	37
35	1	20	14	1	20	12	1	19	32	1	18	42	1	17	59	1	17	37
40	1	20	23	1	20	12	1	19	32	1	18	34	1	17	59	1	17	12
45	1	20	23	1	20	12	1	19	47	1	18	34	1	17	49	1	17	12
50	1	20	12	1	19	50	1	19	32	1	18	27	1	17	49	1	17	12
55	1	20	12	1	19	50	1	19	18	1	18	27	1	17	49	1	17	12

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

JANUARY 20 and 21, 1841.

M. T., Gött.	Declination magnetometer.																	
	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	17	56	1	18	32	1	20	44	1	24	26	1	25	49	1	28	19
5	1	17	19	1	18	32	1	21	50	1	24	58	1	25	49	1	27	41
10	1	17	19	1	18	32	1	21	50	1	25	41	1	25	49	1	26	09
15	1	17	58	1	18	32	1	22	57	1	24	49	1	25	49	1	26	29
20	1	17	53	1	18	32	1	23	21	1	24	27	1	25	49	1	24	46
25	1	17	53	1	18	48	1	23	53	1	24	54	1	25	49	1	24	46
30	1	17	58	1	18	48	1	24	26	1	24	54	1	25	49	1	24	46
35	1	17	58	1	18	48	1	24	26	1	24	54	1	26	31	1	24	21
40	1	18	32	1	19	23	1	24	26	1	24	54	1	26	31	1	24	21
45	1	18	32	1	19	43	1	24	26	1	24	30	1	27	08	1	24	21
50	1	18	32	1	20	44	1	24	26	1	24	30	1	28	55	1	24	21
55	1	18	32	1	20	44	1	24	26	1	24	30	1	28	55	1	23	54

FEBRUARY 26 and 27, 1841.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	21	58	1	21	27	1	22	14	1	09	40	1	18	16	1	16	26
5	1	21	48	1	22	16	1	22	07	1	09	44	1	17	52	1	15	02
10	1	22	16	1	22	39	1	22	46	1	08	24	1	18	03	1	13	01
15	1	22	52	1	22	39	1	23	00	1	07	44	1	18	11	1	13	15
20	1	22	52	1	22	30	1	22	42	1	08	56	1	17	50	1	13	20
25	1	22	32	1	23	25	1	22	21	1	09	48	1	17	40	1	17	52
30	1	22	34	1	23	48	1	22	12	1	12	00	1	17	53	1	21	25
35	1	21	55	1	23	57	1	22	05	1	13	57	1	18	02	1	20	06
40	1	21	42	1	24	03	1	22	42	1	17	07	1	18	14	1	15	56
45	1	20	59	1	23	07	1	21	36	1	18	09	1	18	02	1	13	53
50	1	20	52	1	22	27	1	19	03	1	18	52	1	17	59	1	11	57
55	1	20	55	1	22	04	1	13	15	1	18	16	1	17	44	1	08	44

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	06	54	1	17	57	1	19	05	1	19	16	1	20	30	1	19	26
5	1	07	29	1	18	14	1	19	57	1	18	47	1	19	38	1	21	10
10	1	10	30	1	17	54	1	20	01	1	19	16	1	19	23	1	21	04
15	1	13	27	1	17	33	1	19	45	1	21	56	1	19	28	1	21	28
20	1	14	22	1	17	44	1	19	10	1	23	07	1	19	16	1	21	51
25	1	14	53	1	17	36	1	19	10	1	22	52	1	19	26	1	22	51
30	1	15	53	1	17	17	1	19	26	1	22	34	1	19	56	1	22	51
35	1	16	41	1	17	36	1	19	26	1	21	32	1	19	23	1	22	17
40	1	17	50	1	17	44	1	18	42	1	21	06	1	19	23	1	21	40
45	1	18	10	1	17	29	1	17	16	1	21	34	1	19	16	1	20	59
50	1	18	02	1	17	48	1	17	44	1	21	19	1	19	16	1	20	29
55	1	17	59	1	18	32	1	18	48	1	21	02	1	19	01	1	19	59

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

FEBRUARY 26 and 27, 1841.

Declination magnetometer.

M. T., Gött.	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	19	41	1	17	52	1	18	03	1	17	32	1	15	28	1	15	28
5	1	19	38	1	17	52	1	18	03	1	17	32	1	15	20	1	15	37
10	1	19	26	1	17	52	1	18	03	1	17	12	1	15	20	1	15	37
15	1	19	09	1	17	46	1	18	03	1	16	56	1	15	42	1	15	37
20	1	19	00	1	17	46	1	18	03	1	16	56	1	15	42	1	15	43
25	1	18	25	1	17	46	1	18	24	1	16	34	1	15	57	1	15	47
30	1	18	09	1	17	46	1	18	24	1	15	58	1	15	46	1	15	54
35	1	18	09	1	17	46	1	18	24	1	15	46	1	15	28	1	15	54
40	1	18	09	1	17	46	1	18	18	1	15	16	1	15	28	1	15	54
45	1	18	20	1	17	46	1	18	18	1	14	51	1	15	28	1	15	56
50	1	18	20	1	17	46	1	18	00	1	15	20	1	15	28	1	16	04
55	1	17	52	1	17	46	1	17	48	1	15	20	1	15	28	1	16	16

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	16	37	1	19	39	1	22	03	1	23	39	1	25	34	1	23	16
5	1	16	39	1	19	41	1	22	02	1	23	44	1	25	19	1	23	09
10	1	16	39	1	20	04	1	22	02	1	23	57	1	25	07	1	23	09
15	1	16	44	1	20	39	1	22	12	1	24	00	1	24	42	1	23	09
20	1	17	05	1	20	54	1	22	24	1	24	02	1	24	00	1	23	09
25	1	17	11	1	21	04	1	22	27	1	24	02	1	24	00	1	23	07
30	1	17	29	1	21	27	1	22	27	1	24	05	1	24	00	1	23	07
35	1	17	49	1	21	34	1	22	31	1	24	19	1	24	00	1	23	07
40	1	18	19	1	21	34	1	22	49	1	24	29	1	24	00	1	23	54
45	1	18	34	1	21	34	1	23	04	1	24	49	1	23	58	1	22	49
50	1	18	49	1	21	39	1	23	24	1	25	07	1	23	34	1	22	44
55	1	19	24	1	21	59	1	23	34	1	25	22	1	23	34	1	22	37

MARCH 24 and 25, 1841.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	24	23	1	24	05	1	23	33	1	11	19	1	16	58	1	16	42
5	1	24	27	1	24	05	1	23	27	1	10	45	1	15	15	1	16	48
10	1	24	25	1	24	05	1	23	24	1	11	19	1	14	20	1	16	51
15	1	24	23	1	24	03	1	23	20	1	12	54	1	13	09	1	16	57
20	1	24	23	1	23	59	1	23	15	1	14	24	1	14	16	1	16	59
25	1	24	19	1	23	56	1	22	10	1	14	24	1	16	00	1	17	02
30	1	24	19	1	23	54	1	20	39	1	14	54	1	16	05	1	17	08
35	1	24	18	1	23	49	1	19	19	1	14	59	1	16	09	1	17	24
40	1	24	15	1	23	44	1	18	09	1	15	04	1	16	18	1	17	32
45	1	24	15	1	23	44	1	17	12	1	16	02	1	16	26	1	17	46
50	1	24	09	1	23	39	1	14	56	1	17	09	1	16	30	1	17	52
55	1	24	05	1	23	37	1	12	18	1	17	25	1	16	36	1	18	06

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

M. T., Gött.	Declination magnetometer.																	
	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	18	09	1	18	08	1	18	09	1	18	08	1	18	09	1	18	08
5	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08
10	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	10
15	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	12
20	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	18
25	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	21
30	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	22
35	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	26
40	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	26
45	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	26
50	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	29
55	1	18	08	1	18	08	1	18	08	1	18	08	1	18	08	1	18	29
	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	18	24	1	18	08	1	18	09	1	17	00	1	16	05	1	16	10
5	1	18	19	1	18	08	1	18	08	1	16	02	1	16	19	1	16	29
10	1	18	16	1	18	08	1	18	13	1	16	17	1	16	41	1	16	40
15	1	18	12	1	18	08	1	18	16	1	16	46	1	16	37	1	16	49
20	1	18	12	1	18	08	1	18	16	1	16	46	1	16	20	1	16	52
25	1	18	12	1	18	08	1	18	21	1	16	53	1	16	15	1	16	50
30	1	18	09	1	18	08	1	18	21	1	16	53	1	16	06	1	17	05
35	1	18	08	1	18	08	1	18	19	1	16	17	1	16	04	1	17	05
40	1	18	08	1	18	08	1	18	19	1	16	26	1	16	04	1	17	05
45	1	18	08	1	18	08	1	17	42	1	16	23	1	16	04	1	17	05
50	1	18	08	1	18	08	1	17	26	1	16	31	1	15	51	1	17	05
55	1	18	08	1	18	08	1	17	10	1	16	39	1	16	08	1	17	05
	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	17	08	1	19	56	1	23	15	1	26	27	1	27	05	1	24	58
5	1	17	12	1	20	29	1	24	07	1	26	27	1	27	05	1	24	50
10	1	17	18	1	20	45	1	24	29	1	26	31	1	27	03	1	24	45
15	1	17	24	1	20	54	1	24	40	1	26	39	1	26	56	1	24	36
20	1	17	49	1	21	00	1	24	52	1	26	39	1	26	49	1	24	10
25	1	18	09	1	21	00	1	25	07	1	26	44	1	26	41	1	24	06
30	1	18	19	1	21	00	1	25	24	1	26	50	1	26	20	1	24	03
35	1	18	40	1	21	20	1	25	36	1	26	50	1	26	00	1	24	03
40	1	18	52	1	21	28	1	25	52	1	26	58	1	25	49	1	24	04
45	1	19	01	1	21	41	1	26	06	1	27	00	1	25	18	1	24	04
50	1	19	08	1	21	58	1	26	15	1	27	05	1	25	10	1	24	04
55	1	19	29	1	22	24	1	26	24	1	27	05	1	25	03	1	24	04

TERM-DAY OBSERVATIONS AT WASHINGTON—1841.

APRIL 21 and 22, 1841.

Declination magnetometer.

M. T., Gött.	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	22	40	1	17	54	1	18	39	1	19	11	1	18	21	1	18	08
5	1	22	40	1	16	23	1	19	16	1	19	24	1	18	21	1	18	20
10	1	22	40	1	15	42	1	19	24	1	19	24	1	18	19	1	18	29
15	1	22	40	1	14	37	1	19	55	1	19	24	1	18	15	1	18	38
20	1	22	40	1	15	11	1	19	55	1	19	09	1	18	14	1	18	50
25	1	22	52	1	16	17	1	20	02	1	19	34	1	18	09	1	18	54
30	1	22	47	1	16	45	1	20	02	1	20	11	1	18	06			
35	1	22	49	1	16	45	1	20	10	1	20	44	1	17	50			
40	1	22	46	1	17	54	1	20	10	1	20	57	1	17	50			
45	1	22	49	1	18	10	1	19	53	1	20	38	1	17	46			
50	1	22	19	1	18	20	1	19	26	1	19	22	1	17	49	1	19	00
55	1	21	24	1	18	20	1	19	11	1	19	00	1	18	02	1	20	03
	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	20	03	1	19	01	1	20	31	1	20	36	1	20	09	1	21	19
5	1	19	09	1	19	20	1	20	36	1	20	40	1	20	09	1	21	30
10	1	19	09	1	19	32	1	20	36	1	20	43	1	20	09	1	21	38
15	1	19	09	1	19	49	1	20	36	1	20	43	1	20	09	1	21	50
20	1	19	16	1	20	09	1	20	36	1	20	29	1	20	09	1	21	55
25	1	19	24	1	20	18	1	20	36	1	20	20	1	20	09	1	21	59
30	1	19	11	1	20	20	1	20	36	1	20	14	1	20	09	1	22	06
35	1	18	58	1	20	22	1	20	36	1	20	12	1	20	09	1	22	08
40	1	18	50	1	20	22	1	20	36	1	20	09	1	20	28	1	22	19
45	1	18	39	1	20	23	1	20	36	1	20	09	1	20	42	1	22	19
50	1	18	22	1	20	24	1	20	36	1	20	09	1	20	56	1	22	19
55	1	18	36	1	20	29	1	20	36	1	20	09	1	21	05	1	22	26
	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	22	36	1	17	11	1	16	39	1	17	09	1	18	24	1	18	54
5	1	22	10	1	17	11	1	16	39	1	17	09	1	18	33	1	18	27
10	1	21	39	1	17	11	1	16	48	1	17	09	1	18	20	1	18	27
15	1	21	20	1	17	06	1	16	56	1	17	38	1	18	24	1	19	14
20	1	20	25	1	17	06	1	16	58	1	17	41	1	18	49	1	19	14
25	1	19	59	1	17	06	1	17	02	1	17	56	1	19	09	1	19	14
30	1	19	18	1	17	00	1	17	09	1	18	20	1	19	04	1	19	14
35	1	18	40	1	16	57	1	17	09	1	18	35	1	19	14	1	19	54
40	1	18	10	1	16	49	1	17	09	1	18	50	1	19	07	1	19	54
45	1	17	54	1	16	42	1	17	09	1	19	00	1	18	54	1	19	54
50	1	17	36	1	16	42	1	17	09	1	18	48	1	18	54	1	19	54
55	1	17	20	1	16	42	1	17	09	1	18	29	1	18	54	1	19	54

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

APRIL 21 and 22, 1841.

Declination magnetometer.

M. T., Gött.	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	20	14	1	24	59	1	27	04	1	27	21	1	25	32	1	24	54
5	1	20	24	1	24	49	1	27	04	1	27	21	1	25	32	1	24	54
10	1	20	54	1	24	49	1	27	04	1	27	14	1	25	32	1	24	54
15	1	21	54	1	25	44	1	27	04	1	27	14	1	25	32	1	24	54
20	1	22	28	1	25	44	1	27	04	1	27	14	1	25	32	1	24	54
25	1	22	51	1	25	39	1	27	08	1	26	34	1	25	32	1	24	54
30	1	23	26	1	25	54	1	27	21	1	25	54	1	25	32	1	24	46
35	1	23	54	1	26	17	1	27	21	1	25	47	1	25	09	1	25	34
40	1	23	54	1	26	17	1	27	21	1	25	32	1	25	09	1	25	34
45	1	24	14	1	26	22	1	27	21	1	25	32	1	25	09	1	25	34
50	1	24	14	1	26	22	1	27	21	1	25	32	1	25	09	1	25	12
55	1	24	54	1	27	04	1	27	21	1	25	32	1	24	54	1	25	12

MAY 28 and 29, 1841.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	24	38	1	20	54	1	20	54	1	21	39	1	21	09	1	23	30
5	1	24	11	1	20	54	1	21	09	1	21	39	1	21	09	1	23	30
10	1	24	11	1	21	42	1	21	09	1	21	54	1	22	24	1	23	21
15	1	23	17	1	21	42	1	20	54	1	21	54	1	23	21	1	22	50
20	1	22	08	1	21	42	1	19	54	1	22	34	1	21	54	1	22	50
25	1	21	59	1	21	42	1	19	32	1	22	34	1	21	54	1	22	50
30	1	21	59	1	21	42	1	19	54	1	22	34	1	20	57	1	23	03
35	1	21	39	1	21	29	1	20	34	1	22	34	1	20	19	1	23	03
40	1	21	39	1	21	14	1	21	14	1	22	34	1	20	19	1	23	10
45	1	21	14	1	21	14	1	21	14	1	22	02	1	21	46	1	23	10
50	1	21	14	1	21	14	1	21	14	1	20	39	1	23	02	1	22	46
55	1	20	54	1	20	54	1	21	39	1	21	09	1	23	04	1	22	46

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	22	46	1	21	48	1	22	26	1	21	57	1	21	26	1	20	50
5	1	22	46	1	21	39	1	21	58	1	21	45	1	21	26	1	20	58
10	1	22	48	1	21	51	1	21	52	1	21	39	1	21	26	1	20	28
15	1	22	48	1	22	11	1	22	06	1	21	22	1	20	57	1	20	40
20	1	22	38	1	22	34	1	22	06	1	21	22	1	21	10	1	20	46
25	1	22	28	1	22	34	1	21	57	1	21	22	1	21	10	1	20	58
30	1	22	30	1	22	34	1	21	44	1	21	22	1	20	55	1	20	58
35	1	22	30	1	22	24	1	21	51	1	21	22	1	20	40	1	20	36
40	1	22	30	1	22	41	1	21	57	1	21	22	1	20	22	1	20	41
45	1	22	15	1	23	09	1	21	59	1	21	22	1	21	25	1	20	21
50	1	22	08	1	23	09	1	22	09	1	21	22	1	21	14	1	20	27
55	1	22	02	1	22	46	1	22	09	1	21	22	1	21	06	1	20	27

MAY 28 and 29, 1841.

Declination magnetometer.

M. T., Gött.	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	20	27	1	19	45	1	19	08	1	19	45	1	22	07	1	22	11
5	1	20	45	1	19	45	1	18	32	1	20	22	1	21	51	1	22	39
10	1	20	22	1	19	45	1	18	36	1	20	36	1	21	26	1	23	04
15	1	20	22	1	19	34	1	18	29	1	20	36	1	21	26	1	23	21
20	1	20	07	1	19	34	1	18	55	1	20	23	1	21	32	1	23	02
25	1	20	15	1	19	45	1	18	55	1	20	30	1	21	54	1	23	02
30	1	20	15	1	19	28	1	18	55	1	20	30	1	22	15	1	22	55
35	1	20	15	1	19	28	1	18	46	1	20	30	1	22	28	1	22	55
40	1	20	08	1	19	42	1	18	42	1	20	51	1	22	40	1	23	23
45	1	19	51	1	19	19	1	18	58	1	21	21	1	22	33	1	24	03
50	1	20	22	1	19	19	1	19	03	1	21	21	1	22	27	1	24	37
55	1	20	02	1	19	13	1	19	22	1	21	56	1	22	11	1	24	37

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	24	37	1	25	16	1	24	56	1	24	44	1	24	21	1	23	49
5	1	24	37	1	25	16	1	24	59	1	24	32	1	24	21	1	23	49
10	1	24	26	1	25	13	1	24	44	1	24	32	1	24	21	1	23	49
15	1	24	22	1	25	13	1	24	54	1	24	32	1	24	18	1	23	49
20	1	24	22	1	24	39	1	24	43	1	24	20	1	24	18	1	23	49
25	1	24	39	1	24	39	1	24	46	1	24	20	1	24	09	1	23	42
30	1	24	39	1	24	36	1	24	40	1	24	30	1	24	00	1	23	34
35	1	24	49	1	24	36	1	24	40	1	24	30	1	23	55	1	23	28
40	1	25	02	1	24	36	1	24	44	1	24	30	1	23	39	1	23	18
45	1	25	02	1	24	36	1	24	44	1	24	21	1	23	39	1	23	12
50	1	25	02	1	24	47	1	24	44	1	24	21	1	23	39	1	22	59
55	1	24	54	1	24	22	1	24	44	1	24	21	1	23	39	1	22	39

JUNE 23 and 24, 1841.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	25	48	1	24	33	1	19	57	1	19	48	1	21	41	1	20	03
5	1	25	28	1	24	13	1	18	26	1	20	44	1	21	41	1	19	59
10	1	25	03	1	24	01	1	18	26	1	20	52	1	21	54	1	19	55
15	1	24	32	1	23	44	1	18	26	1	20	16	1	21	54	1	19	51
20	1	24	32	1	22	52	1	18	36	1	20	10	1	21	38	1	19	45
25	1	24	27	1	22	11	1	18	36	1	20	19	1	21	38	1	19	36
30	1	24	16	1	22	11	1	18	36	1	20	40	1	21	38	1	19	18
35	1	23	44	1	21	58	1	18	36	1	20	44	1	21	27	1	19	18
40	1	23	30	1	21	39	1	18	46	1	20	32	1	20	58	1	19	09
45	1	23	42	1	21	11	1	19	20	1	21	09	1	20	42	1	19	09
50	1	24	05	1	20	55	1	19	43	1	21	49	1	20	36	1	19	03
55	1	24	20	1	20	21	1	19	48	1	21	49	1	20	20	1	18	59

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

JUNE 23 and 24, 1841.

Declination magnetometer.

M. T., Gött.	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	18	54	1	17	09	1	17	46	1	21	39	1	26	21	1	25	03
5	1	18	49	1	17	31	1	17	29	1	22	10	1	27	03	1	24	58
10	1	18	44	1	17	50	1	17	11	1	22	41	1	26	59	1	24	46
15	1	18	52	1	18	21	1	17	33	1	23	12	1	26	50	1	24	40
20	1	19	06	1	18	36	1	17	40	1	23	33	1	26	40	1	24	36
25	1	18	48	1	18	40	1	18	26	1	24	03	1	26	11	1	24	32
30	1	18	26	1	18	48	1	19	12	1	23	20	1	26	04	1	24	20
35	1	17	52	1	18	54	1	19	32	1	24	55	1	25	50	1	24	11
40	1	17	39	1	18	30	1	19	58	1	25	06	1	25	41	1	24	04
45	1	17	44	1	18	11	1	20	22	1	25	24	1	25	27	1	23	58
50	1	17	21	1	18	06	1	21	05	1	25	59	1	25	09	1	23	38
55	1	17	46	1	17	54	1	21	21	1	26	17	1	25	09	1	23	15

	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	23	01	1	20	54	1	19	32	1	17	21	1	16	59	1	17	14
5	1	22	53	1	20	49	1	19	15	1	17	01	1	16	59	1	17	12
10	1	22	40	1	20	42	1	19	10	1	16	46	1	16	59	1	17	14
15	1	22	19	1	20	35	1	19	06	1	16	25	1	16	59	1	17	12
20	1	22	00	1	20	31	1	19	00	1	16	09	1	16	56	1	17	12
25	1	21	51	1	20	26	1	18	49	1	15	57	1	16	50	1	18	34
30	1	21	19	1	20	20	1	18	49	1	15	48	1	16	50	1	18	34
35	1	21	16	1	20	12	1	18	41	1	15	48	1	16	50	1	19	14
40	1	21	12	1	20	03	1	18	34	1	15	48	1	16	50	1	20	04
45	1	21	06	1	20	56	1	18	25	1	16	06	1	16	50	1	20	29
50	1	21	00	1	19	49	1	18	10	1	16	21	1	16	50	1	20	29
55	1	21	00	1	19	39	1	17	50	1	16	33	1	16	50	1	20	29

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	20	20	1	23	20	1	24	12	1	24	54	1	25	58	1	25	09
5	1	20	54	1	23	10	1	24	54	1	25	14	1	25	58	1	24	54
10	1	21	54	1	25	09	1	24	54	1	25	14	1	25	58	1	24	54
15	1	22	14	1	26	09	1	24	54	1	25	14	1	25	58	1	24	54
20	1	22	34	1	26	09	1	24	29	1	25	14	1	25	58	1	24	54
25	1	22	34	1	23	31	1	24	29	1	25	14	1	25	58	1	24	54
30	1	22	32	1	23	59	1	24	29	1	25	14	1	25	58	1	24	54
35	1	22	34	1	23	59	1	24	12	1	25	14	1	25	58	1	24	54
40	1	22	54	1	24	22	1	24	12	1	25	58	1	25	09	1	24	17
45	1	23	20	1	24	12	1	24	12	1	25	58	1	25	09	1	24	17
50	1	23	20	1	24	12	1	24	39	1	25	58	1	25	09	1	24	17
55	1	23	20	1	24	12	1	24	54	1	25	58	1	25	09	1	24	17

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

JULY 21 and 22, 1841.

M. T., Gött.	Declination magnetometer.																	
	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	24	50	1	24	40	1	24	36	1	24	45	1	24	09	1	17	54
5	1	25	04	1	24	40	1	24	42	1	24	39	1	24	09	1	17	46
10	1	25	04	1	24	40	1	24	42	1	24	55	1	24	09	1	16	44
15	1	25	04	1	24	40	1	24	42	1	24	55	1	24	09	1	14	43
20	1	25	04	1	24	40	1	24	44	1	24	55	1	23	22	1	10	24
25	1	24	46	1	24	24	1	24	44	1	24	55	1	20	30	1	09	20
30	1	24	37	1	24	24	1	24	44	1	24	55	1	18	29	1	09	48
35	1	24	37	1	24	29	1	24	44	1	25	01	1	18	11	1	12	19
40	1	24	37	1	24	29	1	25	02	1	24	39	1	19	03	1	13	37
45	1	24	24	1	24	29	1	25	02	1	24	13	1	19	49	1	14	16
50	1	24	21	1	24	29	1	24	56	1	24	09	1	20	40	1	13	53
55	1	24	29	1	24	29	1	24	56	1	24	09	1	17	54	1	14	45

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	16	10	1	14	56	1	25	16	1	21	03	1	19	15	1	24	18
5	1	17	13	1	13	39	1	22	35	1	25	54	1	19	33	1	26	41
10	1	18	00	1	13	30	1	20	29	1	29	36	1	20	14	1	28	28
15	1	18	00	1	13	22	1	19	37	1	29	44	1	19	56	1	29	18
20	1	17	20	1	14	16	1	19	03	1	28	37	1	19	56	1	27	40
25	1	16	51	1	14	56	1	17	44	1	27	07	1	19	43	1	25	55
30	1	15	54	1	19	22	1	17	03	1	25	20	1	19	43	1	25	13
35	1	15	49	1	23	49	1	16	20	1	24	59	1	19	24	1	23	48
40	1	15	49	1	25	26	1	16	16	1	24	59	1	19	53	1	22	37
45	1	15	49	1	27	26	1	16	30	1	20	46	1	21	24	1	22	57
50	1	15	49	1	27	31	1	17	19	1	19	48	1	21	36	1	22	44
55	1	15	31	1	26	38	1	18	44	1	19	15	1	21	49	1	22	44

	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	23	18	1	20	19	1	18	41	1	17	30	1	17	53	1	19	46
5	1	23	08	1	20	19	1	18	41	1	17	39	1	17	43	1	20	14
10	1	23	29	1	20	19	1	18	30	1	17	43	1	17	49	1	20	38
15	1	23	29	1	20	42	1	18	30	1	17	48	1	17	54	1	20	51
20	1	22	43	1	19	54	1	18	30	1	17	48	1	17	54	1	20	51
25	1	22	04	1	19	52	1	18	14	1	17	39	1	17	54	1	20	51
30	1	21	39	1	19	52	1	18	14	1	17	39	1	17	54	1	21	26
35	1	21	18	1	19	41	1	18	01	1	17	25	1	18	22	1	22	04
40	1	21	18	1	19	49	1	18	01	1	17	25	1	19	06	1	20	50
45	1	20	48	1	19	49	1	17	41	1	17	38	1	19	09	1	20	50
50	1	20	41	1	19	49	1	17	41	1	17	53	1	19	09	1	20	50
55	1	20	41	1	18	47	1	17	41	1	17	53	1	19	09	1	21	06

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

JULY 21 and 22, 1841.

Declination magnetometer.

M. T., Gött.	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	21	17	1	23	50	1	25	47	1	26	29	1	26	15	1	26	56
5	1	21	36	1	24	00	1	25	39	1	26	20	1	26	28	1	27	00
10	1	21	54	1	24	12	1	25	54	1	26	12	1	26	23	1	26	51
15	1	22	19	1	24	24	1	25	54	1	26	01	1	26	23	1	26	39
20	1	22	23	1	24	34	1	25	54	1	25	49	1	26	23	1	26	21
25	1	22	28	1	24	39	1	26	13	1	25	49	1	26	28	1	26	21
30	1	22	42				1	26	22	1	25	56	1	26	23	1	26	21
35	1	22	42	1	25	20	1	26	22	1	26	35	1	26	34	1	26	06
40	1	22	59	1	25	34	1	26	29	1	26	24	1	26	45	1	26	06
45	1	23	00	1	25	41	1	26	32	1	26	19	1	26	45	1	26	02
50	1	23	15	1	25	41	1	26	32	1	26	15	1	26	37	1	26	02
55	1	23	39	1	25	41	1	26	32	1	26	15	1	26	37	1	26	02

AUGUST 27 and 28, 1841.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	23	58	1	25	12	1	22	59	1	15	51	1	20	26	1	22	22
5	1	23	28	1	25	06	1	23	06	1	10	51	1	20	47	1	22	49
10	1	23	18	1	24	44	1	22	51	1	10	51	1	21	35	1	23	37
15	1	24	33	1	24	21	1	22	48	1	07	02	1	22	10	1	23	37
20	1	23	58	1	23	59	1	22	48	1	08	31	1	22	45	1	23	45
25	1	24	18	1	23	38	1	23	00	1	10	59	1	23	41	1	23	09
30	1	25	01	1	23	01	1	22	53	1	13	32	1	23	51	1	22	58
35	1	25	18	1	22	33	1	22	37	1	15	50	1	23	48	1	23	07
40	1	25	58	1	22	33	1	23	03	1	16	32	1	23	04	1	23	00
45	1	25	58	1	22	18	1	23	23	1	18	02	1	22	49	1	22	48
50	1	26	01	1	22	18	1	23	23	1	19	28	1	22	31	1	22	48
55	1	25	48	1	22	33	1	23	23	1	20	18	1	22	12	1	22	26

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	22	19	1	23	05	1	24	04	1	20	27	1	21	03	1	20	00
5	1	21	36	1	23	18	1	24	50	1	19	55	1	20	48	1	20	29
10	1	21	21	1	23	29	1	26	22	1	19	50	1	20	48	1	21	00
15	1	21	08	1	23	43	1	28	35	1	19	21	1	20	48	1	21	00
20	1	21	21	1	21	47	1	29	41	1	18	28	1	21	23	1	20	26
25	1	21	08	1	16	44	1	29	06	1	17	30	1	20	05	1	20	11
30	1	21	28	1	15	56	1	28	00	1	17	16	1	20	06	1	19	33
35	1	21	45	1	17	31	1	26	31	1	17	55	1	19	56	1	19	26
40	1	22	02	1	19	50	1	24	58	1	18	37	1	19	28	1	18	42
45	1	22	02	1	22	04	1	24	07	1	19	37	1	19	40	1	18	57
50	1	22	24	1	22	52	1	23	02	1	21	03	1	19	34	1	19	23

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

AUGUST 27 and 28, 1841.

Declination magnetometer.

M. T., Gött.	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	19	51	1	29	43	1	21	23	1	13	12	1	14	29	1	16	35
5	1	20	29	1	30	06	1	20	08	1	13	12	1	13	49	1	16	45
10	1	20	43	1	30	17	1	18	55	1	13	26	1	13	52	1	16	48
15	1	20	43	1	30	17	1	16	44	1	13	26	1	13	13	1	17	20
20	1	21	00	1	30	30	1	15	35	1	13	26	1	13	13	1	17	20
25	1	21	23	1	30	24	1	16	45	1	13	33	1	12	52	1	17	32
30	1	22	32	1	29	16	1	16	45	1	12	56	1	14	06	1	18	48
35	1	23	01	1	28	53	1	14	59	1	12	31	1	14	51	1	18	55
40	1	23	41	1	27	58	1	14	15	1	13	03	1	15	24	1	20	06
45	1	25	15	1	26	00	1	14	15	1	14	29	1	15	24	1	20	06
50	1	26	40	1	24	25	1	14	33	1	14	29	1	14	42	1	20	06
55	1	28	22	1	23	08	1	14	07	1	14	16	1	15	43	1	20	06

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	20	06	1	23	26	1	26	55	1	30	23	1	27	14	1	27	28
5	1	20	43	1	23	55	1	27	03	1	30	28	1	27	14	1	26	42
10	1	21	24	1	24	07	1	27	01	1	29	58	1	27	14	1	26	11
15	1	21	58	1	24	33	1	26	40	1	29	35	1	27	14	1	25	47
20	1	22	34	1	24	53	1	26	55	1	28	54	1	27	46	1	25	37
25	1	23	27	1	25	12	1	27	01	1	28	47	1	27	58	1	25	23
30	1	23	27	1	25	17	1	27	28	1	28	35	1	28	23	1	25	28
35	1	23	27	1	25	26	1	27	51	1	28	28	1	28	08	1	25	35
40	1	23	11	1	25	36	1	28	33	1	29	15	1	27	37	1	25	55
45	1	23	05	1	25	56	1	29	09	1	29	08	1	27	18	1	25	51
50	1	22	55	1	26	05	1	29	21	1	29	00	1	27	28	1	25	33
55	1	23	17	1	26	37	1	29	32	1	27	48	1	27	28	1	25	03

SEPTEMBER 22 and 23, 1841.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	21	02	1	24	03	1	24	03	1	23	40	1	23	10	1	22	56
5	1	21	11	1	24	05	1	24	03	1	23	40	1	23	27	1	22	56
10	1	21	39	1	24	05	1	24	04	1	23	35	1	23	10	1	22	56
15	1	21	51	1	24	05	1	24	03	1	23	32	1	23	10	1	22	56
20	1	21	58	1	24	05	1	24	03	1	23	28	1	23	10	1	23	20
25	1	22	34	1	24	05	1	23	41	1	23	03	1	23	10	1	23	02
30	1	23	16	1	24	13	1	23	29	1	23	11	1	23	03	1	23	02
35	1	24	10	1	24	13	1	23	29	1	23	16	1	22	58	1	23	02
40	1	23	28	1	24	18	1	23	29	1	23	27	1	23	10	1	23	02
45	1	24	10	1	24	18	1	23	29	1	23	24	1	23	10	1	23	02
50	1	24	10	1	24	18	1	23	40	1	23	10	1	23	02	1	23	02
55	1	24	16	1	24	18	1	23	40	1	23	10	1	23	03	1	23	02

SEPTEMBER 22 and 23, 1841.

Declination magnetometer.

M. T., Gött.	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	23	02	1	22	26	1	21	12	1	21	25	1	20	51	1	21	05
5	1	22	44	1	21	47	1	21	12	1	21	07	1	21	04	1	21	05
10	1	22	48	1	21	47	1	21	12	1	20	43	1	21	04	1	21	14
15	1	22	48	1	21	47	1	21	32	1	20	53	1	20	56	1	21	17
20	1	22	48	1	21	58	1	21	42	1	20	53	1	20	56	1	21	54
25	1	22	48	1	22	07	1	21	42	1	20	36	1	20	49	1	22	07
30	1	22	54	1	22	05	1	21	38	1	20	50	1	20	49	1	22	07
35	1	22	54	1	21	57	1	21	01	1	20	32	1	20	49	1	22	07
40	1	22	54	1	21	50	1	21	01	1	20	32	1	20	49	1	22	44
45	1	22	32	1	21	48	1	21	20	1	20	54	1	20	49	1	22	30
50	1	22	19	1	21	48	1	22	10	1	21	02	1	20	54	1	22	11
55	1	22	26	1	21	11	1	22	10	1	20	51	1	21	05	1	22	11

	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	22	11	1	22	18	1	20	58	1	21	00	1	19	25	1	19	12
5	1	22	11	1	22	13	1	20	50	1	19	49	1	19	38	1	19	12
10	1	22	11	1	22	18	1	20	50	1	19	49	1	19	38	1	20	07
15	1	22	11	1	22	18	1	20	43	1	19	33	1	19	38	1	19	29
20	1	21	44	1	21	53	1	20	43	1	18	53	1	19	38	1	19	14
25	1	21	10	1	21	56	1	20	35	1	19	32	1	19	38	1	19	05
30	1	20	56	1	21	56	1	21	00	1	19	44	1	19	19	1	19	12
35	1	20	56	1	21	56	1	19	51	1	19	51	1	19	19	1	19	32
40	1	21	34	1	21	56	1	19	51	1	19	34	1	19	19	1	19	32
45	1	21	34	1	21	56	1	19	34	1	19	34	1	20	04	1	19	52
50	1	21	34	1	21	37	1	21	00	1	19	34	1	18	46	1	20	38
55	1	21	34	1	21	18	1	21	00	1	19	42	1	18	46	1	21	13

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	20	56	1	21	59	1	22	55	1	24	36	1	24	33	1	24	27
5	1	21	09	1	22	03	1	22	55	1	24	36	1	24	33	1	24	27
10	1	21	14	1	22	03	1	23	02	1	24	41	1	24	33	1	24	27
15	1	21	24	1	22	03	1	23	07	1	24	41	1	24	33	1	24	27
20	1	21	24	1	22	03	1	23	07	1	24	41	1	24	27	1	24	22
25	1	21	24	1	22	03	1	23	43	1	24	41	1	24	27	1	24	22
30	1	21	24	1	22	20	1	24	01	1	24	41	1	24	27	1	24	22
35	1	21	24	1	22	20	1	24	13	1	24	41	1	24	27	1	24	22
40	1	21	34	1	22	09	1	24	13	1	24	45	1	24	27	1	24	22
45	1	21	34	1	22	41	1	24	18	1	24	33	1	24	27	1	24	27
50	1	21	47	1	22	41	1	24	36	1	24	33	1	24	27	1	24	18
55	1	21	47	1	22	50	1	24	36	1	24	33	1	24	27	1	24	16

OCTOBER 20 and 21, 1841.

Declination magnetometer.

M. T., Gött.	10 P. M.	11 P. M.	Midnight.	1 A. M.	2 A. M.	3 A. M.
′	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″
0		1 26 40	1 25 10	1 25 01	1 24 05	1 07 57
5		1 25 49	1 24 08	1 25 21	1 24 03	1 12 25
10		1 26 09	1 23 55	1 25 21	1 23 44	1 15 39
15		1 26 03	1 23 39	1 25 28	1 23 44	1 18 07
20	1 26 18	1 26 08	1 23 01	1 24 55	1 22 02	1 20 01
25	1 26 18	1 26 12	1 22 36	1 25 04	1 21 04	1 20 51
30	1 25 06	1 26 15	1 22 11	1 24 39	1 18 50*	1 21 41
35	1 25 51	1 26 15	1 22 37	1 24 24	1 13 47	1 21 55
40	1 25 58	1 26 21	1 23 17	1 24 03	1 07 39	1 21 02
45	1 25 31	1 26 38	1 23 32	1 23 48	1 02 45	1 19 37
50	1 25 29	1 26 38	1 24 18	1 24 03	1 02 45	1 18 54
55	1 25 31	1 26 19	1 25 01	Vibrating	1 04 21	1 18 02

	4 A. M.	5 A. M.	6 A. M.	7 A. M.	8 A. M.	9 A. M.
0	1 18 01	1 20 01	1 16 57	1 13 51	1 17 51	1 19 01
5	1 18 33	1 19 35		1 13 21	1 18 21	1 19 08
10	1 18 38	1 18 47		1 13 37	1 19 16	1 19 27
15	1 18 13	1 18 47	1 17 16	1 14 58	1 20 36	1 19 51
20	1 18 19	1 18 47	1 17 16	1 17 00	1 20 46	1 19 24
25	1 19 51	1 18 21	1 15 19	1 19 06	1 21 05	1 19 12
30	1 20 53	1 17 31	1 13 00†	1 20 25	1 21 55	1 18 37
35	1 21 27	1 17 53	1 11 41	1 20 46	1 21 40	1 19 08
40	1 21 04	1 17 53	1 09 01	1 20 46	1 21 40	1 21 30
45	1 21 04	1 17 58	1 06 08	1 17 46	1 20 51	1 23 28
50	1 20 54	1 18 08	1 08 20	1 16 57	1 19 04	1 24 49
55	1 19 50	1 17 51	1 12 31	1 16 57	1 19 04	1 25 18

	10 A. M.	11 A. M.	Noon.	1 P. M.	2 P. M.	3 P. M.
0	1 27 46	1 25 13	1 23 17	Vibrating	1 28 25	1 25 39
5	Vibrating	1 24 31	1 24 18	1 21 16	1 29 00	1 25 48
10	Do	1 22 41	1 23 28	1 22 56	1 29 11	1 24 53
15	Do	1 22 41	1 23 09	1 24 10	1 29 11	1 25 13
20	Do	1 22 51	1 23 09	1 25 24	1 29 17	1 25 27
25	1 27 09	1 22 51	1 22 26	1 26 23	1 29 46	1 25 38
30	1 27 09	1 22 51	1 22 30	1 26 23	1 28 47	1 26 01
35	1 26 33	1 23 10	1 21 53	1 27 46	1 27 39	1 26 36
40	1 26 03	1 22 38	1 20 44	1 28 12	1 27 39	1 26 49
45	Vibrating	1 22 38	1 20 10	1 27 43	1 26 49	1 27 51
50	Do	1 22 38	Vibrating	1 27 43	1 26 25	1 28 07
55	1 25 48	1 23 20	Do	1 27 31	1 26 01	1 27 23

* An aurora visible. † Appearance of an aurora.

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

OCTOBER 20 and 21, 1841.

M. T., Gött.	Declination magnetometer.																	
	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	27	12	1	24	09	1	26	30	1	26	54	1	25	37	1	25	27
5	1	27	21	1	24	37	1	26	25	1	26	05	1	25	39	1	25	27
10	1	26	51	1	24	24	1	26	37	1	25	58	1	25	08	1	25	27
15	1	26	51	1	24	51	1	26	37	1	25	51	1	25	08	1	25	11
20	1	26	01	1	24	57	1	26	37	1	25	38	1	25	02	1	25	18
25	1	24	33	1	25	28	1	26	03	1	25	02	1	24	54	1	25	18
30	1	24	13	1	25	51	1	25	42	1	25	15	1	25	03	1	24	51
35	1	24	34	1	25	59	1	25	42	1	25	02	1	25	07	1	24	56
40	1	23	37				1	25	42	1	25	19	1	25	13	1	24	52
45	1	23	21				1	26	55	1	25	38	1	25	03	1	24	47
50	1	23	28				1	26	55	1	25	19	1	24	57	1	24	47
55	1	24	21				1	26	23	1	25	37	1	25	18	1	25	00

NOVEMBER 26 and 27, 1841.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	22	11	1	22	11	1	22	11	1	21	16	1	21	16	1	20	46
5	1	22	11	1	22	11	1	22	11	1	21	16	1	21	16	1	21	11
10	1	22	11	1	22	11	1	22	11	1	21	16	1	21	26	1	21	46
15	1	22	11	1	22	11	1	22	11	1	21	16	1	21	26	1	21	46
20	1	22	11	1	22	11	1	22	11	1	21	16	1	21	11	1	22	21
25	1	22	11	1	22	11	1	22	11	1	21	16	1	21	01	1	22	41
30	1	22	11	1	22	11	1	22	11	1	21	16	1	20	51	1	22	41
35	1	22	11	1	22	11	1	22	11	1	21	16	1	20	14	1	22	41
40	1	22	11	1	22	11	1	22	11	1	21	16	1	19	58	1	22	41
45	1	22	11	1	22	11	1	22	11	1	21	16	1	19	58	1	22	31
50	1	22	11	1	22	11	1	22	11	1	21	16	1	20	26	1	22	31
55	1	22	11	1	22	11	1	22	11	1	21	16	1	20	26	1	22	31

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	22	31	1	21	59	1	22	26	1	21	49	1	22	26	1	22	15
5	1	22	31	1	21	59	1	22	26	1	22	11	1	22	07	1	22	15
10	1	22	31	1	22	10	1	22	11	1	22	28	1	22	07	1	22	15
15	1	22	16	1	22	10	1	22	11	1	22	28	1	22	07	1	22	15
20	1	22	16	1	22	28	1	21	51	1	22	28	1	22	07	1	22	15
25	1	22	08	1	22	28	1	21	51	1	22	36	1	22	07	1	22	15
30	1	21	59	1	22	28	1	21	41	1	22	36	1	22	07	1	22	15
35	1	21	59	1	22	31	1	21	41	1	22	36	1	22	07	1	22	15
40	1	21	59	1	22	31	1	21	31	1	22	36	1	22	07	1	22	15
45	1	21	59	1	22	31	1	21	31	1	22	26	1	22	15	1	22	15
50	1	21	59	1	22	41	1	21	31	1	22	26	1	22	15	1	22	15
55	1	21	59	1	22	41	1	21	31	1	22	26	1	22	15	1	22	15

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

NOVEMBER 26 and 27, 1841.

M. T., Gött.	Declination magnetometer.																	
	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	22	14	1	21	51	1	21	45	1	21	51	1	20	46	1	20	21
5	1	22	14	1	21	51	1	21	45	1	21	51	1	20	46	1	20	21
10	1	22	14	1	21	49	1	21	40	1	21	31	1	20	46	1	20	13
15	1	22	14	1	21	49	1	21	40	1	21	31	1	20	46	1	20	10
20	1	21	51	1	21	43	1	21	40	1	21	14	1	20	31	1	20	10
25	1	21	51	1	21	45	1	21	40	1	21	14	1	20	31	1	20	10
30	1	21	51	1	21	45	1	21	21	1	21	14	1	20	31	1	20	17
35	1	21	51	1	21	45	1	21	21	1	21	01	1	20	31	1	20	17
40	1	21	51	1	21	45	1	21	31	1	20	54	1	20	31	1	20	17
45	1	21	51	1	21	45	1	21	31	1	20	54	1	20	21	1	20	23
50	1	21	51	1	21	45	1	21	31	1	20	39	1	20	21	1	20	32
55	1	21	51	1	21	45	1	21	31	1	20	39	1	20	21	1	20	32

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	20	47	1	22	53	1	24	47	1	25	17	1	25	07	1	24	21
5	1	20	53	1	23	10	1	24	54	1	25	17	1	25	03	1	24	10
10	1	21	00	1	23	27	1	24	47	1	25	23	1	24	58	1	24	03
15	1	21	05	1	23	29	1	25	04	1	25	21	1	24	52	1	23	50
20	1	21	11	1	23	45	1	25	04	1	25	21	1	24	44	1	23	50
25	1	21	28	1	23	52	1	25	04	1	25	21	1	24	35	1	23	55
30	1	21	41	1	23	52	1	25	15	1	25	21	1	24	35	1	23	40
35	1	21	54	1	24	18	1	25	15	1	25	10	1	24	35	1	23	28
40	1	22	12	1	24	41	1	25	15	1	24	58	1	24	35	1	23	17
45	1	22	21	1	24	41	1	25	15	1	24	58	1	24	35	1	23	23
50	1	22	35	1	24	41	1	25	15	1	24	58	1	24	28	1	23	14
55	1	22	45	1	24	47	1	25	15	1	25	13	1	24	21	1	22	56

DECEMBER 22 and 23, 1841.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0							1	23	26	1	21	41	1	22	14	1	20	56
5							1	22	09	1	22	11	1	21	46	1	20	56
10							1	21	46	1	22	24	1	21	41	1	20	56
15							1	21	28	1	22	49	1	21	41	1	20	56
20							1	21	28	1	22	49	1	21	41	1	20	51
25							1	21	28	1	22	37	1	21	41	1	20	51
30							1	21	19	1	22	31	1	21	41	1	20	51
35							1	21	37	1	22	47	1	21	41	1	20	51
40							1	21	28	1	23	10	1	21	41	1	20	51
45							1	21	19	1	22	51	1	21	41	1	20	51
50							1	21	19	1	22	33	1	21	41	1	20	51
55							1	21	19	1	22	33	1	21	01	1	20	51

TERM DAY OBSERVATIONS AT WASHINGTON—1841.

DECEMBER 22 and 23, 1841.

M. T., Gött.	Declination magnetometer.																	
	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	20	51	1	20	51	1	21	06	1	20	46	1	27	06	1	21	51
5	1	20	51	1	20	51	1	21	06	1	20	16	1	27	36	1	21	51
10	1	20	51	1	20	51	1	21	06	1	21	06	1	26	36	1	21	51
15	1	20	51	1	20	51	1	21	06	1	22	06	1	25	36	1	21	51
20	1	20	51	1	20	51	1	21	06	1	23	00	1	24	36	1	21	51
25	1	20	51	1	20	51	1	21	06	1	23	26	1	23	31	1	21	51
30	1	20	51	1	20	51	1	20	36	1	24	06	1	23	31	1	21	51
35	1	20	51	1	21	06	1	20	06	1	24	56	1	22	21	1	20	11
40	1	20	51	1	21	06	1	20	06	1	25	06	1	22	21	1	20	11
45	1	20	51	1	21	06	1	20	16	1	25	36	1	21	51	1	20	11
50	1	20	51	1	21	06	1	20	46	1	26	36	1	21	51	1	20	11
55	1	20	51	1	21	06	1	21	16	1	27	00	1	21	51	1	20	11

	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	20	11	1	21	31	1	21	31	1	21	31	1	21	11	1	21	31
5	1	20	11	1	20	36	1	21	31	1	21	31	1	20	51	1	21	13
10	1	20	11	1	20	36	1	21	31	1	21	11	1	20	51	1	20	57
15	1	20	11	1	20	36	1	21	31	1	21	11	1	20	49	1	21	09
20	1	20	11	1	20	36	1	21	31	1	21	11	1	20	48	1	21	11
25	1	20	11	1	20	36	1	21	31	1	21	11	1	20	44	1	21	30
30	1	20	11	1	22	01	1	21	31	1	21	11	1	20	44	1	21	51
35	1	21	31	1	22	01	1	21	31	1	21	11	1	20	41	1	21	51
40	1	21	31	1	22	01	1	21	31	1	21	11	1	20	41	1	21	51
45	1	21	31	1	21	31	1	21	31	1	21	11	1	20	41	1	21	51
50	1	21	31	1	21	31	1	21	31	1	21	11	1	21	00	1	22	02
55	1	21	31	1	21	31	1	21	31	1	21	11	1	21	17	1	22	11

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	22	11	1	22	24	1	24	29	1	25	40	1	25	41	1	24	56
5	1	22	09	1	22	24	1	24	29	1	25	49	1	25	36	1	24	56
10	1	22	07	1	22	41	1	24	29	1	26	00	1	25	36	1	24	56
15	1	22	06	1	22	59	1	24	39	1	26	02	1	25	26	1	24	43
20	1	22	16	1	23	41	1	24	43	1	26	09	1	25	26	1	24	43
25	1	22	23	1	23	49	1	24	43	1	26	09	1	25	21	1	24	43
30	1	22	24	1	23	59	1	24	51	1	26	09	1	25	16	1	24	39
35	1	22	24	1	23	59	1	24	51	1	26	09	1	25	16	1	24	36
40	1	22	24	1	23	59	1	25	01	1	26	09	1	25	16	1	24	36
45	1	22	24	1	24	10	1	25	29	1	26	09	1	24	56	1	24	10
50	1	22	24	1	24	29	1	25	29	1	25	59	1	24	56	1	24	10
55	1	22	24	1	24	29	1	25	29	1	25	59	1	24	56	1	24	18

TERM DAY OBSERVATIONS AT WASHINGTON—1842.

FEBRUARY 25 and 26, 1842.

Declination magnetometer.

M. T., Gött.	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0							1	27	32	1	28	07	1	26	52	1	25	04
5							1	27	02	1	27	02	1	27	18	1	25	06
10							1	27	02	1	26	37	1	26	33	1	25	25
15							1	27	23	1	26	20	1	26	52	1	25	50
20				1	26	58	1	27	23	1	26	22	1	26	52	1	26	22
25				1	27	18	1	27	36	1	26	30	1	26	42	1	26	12
30				1	27	48	1	27	43	1	26	36	1	26	28	1	26	55
35				1	27	48	1	28	16	1	26	48	1	25	42	1	26	52
40				1	27	48	1	28	16	1	26	38	1	25	42	1	27	17
45				1	27	48	1	27	57	1	26	39	1	25	42	1	27	21
50				1	27	48	1	27	57	1	26	39	1	25	44	1	26	53
55				1	27	24	1	28	00	1	26	39	1	25	47	1	27	04

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	26	35	1	27	42	1	27	42	1	27	04	1	28	05	1	26	07
5	1	27	20	1	27	36	1	27	54	1	27	11	1	27	12	1	26	24
10	1	27	10	1	28	08	1	27	04	1	26	44	1	27	12	1	26	30
15	1	25	42	1	27	48	1	26	32	1	26	55	1	27	02	1	25	34
20	1	26	37	1	27	39	1	27	55	1	26	54	1	27	02	1	25	07
25	1	27	00	1	28	12	1	26	37	1	27	08	1	26	27	1	25	51
30	1	26	32	1	28	07	1	26	18	1	27	07	1	26	25	1	25	00
35	1	26	42	1	27	55	1	26	29	1	27	07	1	26	25	1	25	31
40	1	27	14	1	27	50	1	26	08	1	29	00	1	26	42	1	25	32
45	1	27	17	1	25	56	1	26	08	1	30	02	1	26	41	1	25	56
50	1	27	01	1	25	26	1	26	25	1	29	39	1	26	58	1	25	46
55	1	26	55	1	27	12	1	26	40	1	28	52	1	26	27	1	25	57

	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	26	11	1	27	00	1	26	10	1	24	47	1	22	26	1	22	46
5	1	26	29	1	26	44	1	25	52	1	25	07	1	21	37	1	22	37
10	1	27	26	1	26	35	1	25	39	1	24	45	1	21	50	1	23	12
15	1	27	26	1	26	29	1	25	31	1	24	51	1	21	50	1	23	22
20	1	27	52	1	26	27	1	25	22	1	24	59	1	21	53	1	22	53
25	1	28	06	1	26	23	1	25	12	1	24	31	1	21	42	1	22	55
30	1	28	00	1	26	04	1	25	26	1	24	29	1	21	35	1	22	45
35	1	28	00	1	25	43	1	25	49	1	24	28	1	21	45	1	22	57
40	1	27	49	1	26	02	1	25	28	1	24	22	1	21	44	1	23	11
45	1	27	36	1	25	32	1	25	44	1	24	06	1	22	07	1	22	53
50	1	27	19	1	25	34	1	25	01	1	23	02	1	22	21	1	23	14
55	1	27	05	1	25	51	1	25	08	1	21	58	1	21	50	1	23	46

TERM DAY OBSERVATIONS AT WASHINGTON—1842.

FEBRUARY 25 and 26, 1842.

M. T., Gött.	Declination magnetometer.																	
	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	23	32	1	25	30	1	27	42	1	28	14	1	29	52	1	27	56
5	1	22	57	1	25	56	1	27	55	1	28	14	1	29	52	1	27	56
10	1	23	51	1	25	56	1	25	51	1	28	14	1	28	32	1	27	56
15	1	23	52	1	24	42	1	25	53	1	28	47	1	28	32	1	27	50
20	1	24	01	1	25	08	1	26	02	1	28	35	1	28	32	1	27	32
25	1	24	44	1	24	53	1	26	02	1	28	35	1	28	32	1	27	32
30	1	25	02	1	25	16	1	26	17	1	29	52	1	28	17	1	27	32
35	1	24	33	1	25	40	1	26	49	1	29	52	1	28	17	1	27	22
40	1	25	18	1	26	31	1	27	22	1	29	52	1	28	12	1	27	22
45	1	24	56	1	26	42	1	27	59	1	29	52	1	28	12	1	27	22
50	1	25	08	1	26	59	1	27	59	1	29	52	1	28	12	1	27	12
55	1	25	28	1	27	18	1	28	14	1	29	52	1	27	57	1	26	57

MARCH 23 and 24, 1842.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	27	11	1	25	43	1	24	24	1	05	44	1	21	07	1	24	10
5	1	27	38	1	26	29	1	23	55	1	07	08	1	22	20	1	24	12
10	1	28	04	1	26	13	1	24	24	1	09	00	1	22	55	1	24	16
15	1	27	39	1	25	56	1	24	04	1	13	06	1	22	56	1	24	21
20	1	28	04	1	25	00	1	23	06	1	14	50	1	22	52	1	24	27
25	1	27	37	1	24	55	1	22	16	1	15	26	1	23	04	1	24	17
30	1	26	46	1	24	51	1	20	36	1	16	12	1	23	09	1	24	01
35	1	26	46	1	25	08	1	20	15	1	16	08	1	23	42	1	23	54
40	1	26	08	1	25	12	1	19	24	1	17	13	1	23	42	1	23	42
45	1	25	40	1	25	29	1	15	52	1	19	12	1	23	45	1	23	37
50	1	25	55	1	25	04	1	13	00	1	19	57	1	23	50	1	23	43
55	1	25	59	1	23	52	1	09	02	1	22	22	1	24	12	1	23	16

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	23	00	1	20	30	1	21	50	1	21	50	1	24	48	1	22	28
5	1	22	37	1	19	04	1	21	46	1	21	38	1	24	50	1	22	14
10	1	22	04	1	18	00	1	21	58	1	21	28	1	24	54	1	22	05
15	1	22	20	1	17	37	1	22	02	1	21	40	1	24	48	1	21	57
20	1	22	08	1	17	53	1	22	18	1	21	58	1	24	33	1	21	46
25	1	21	55	1	19	11	1	22	20	1	22	13	1	24	14	1	21	41
30	1	22	06	1	19	23	1	22	35	1	22	53	1	24	05	1	21	35
35	1	22	18	1	20	14	1	22	45	1	23	16	1	23	47	1	21	28
40	1	21	57	1	21	16	1	22	30	1	23	30	1	23	27	1	21	18
45	1	21	28	1	21	32	1	22	18	1	23	37	1	23	18	1	21	10
50	1	21	20	1	21	57	1	22	10	1	23	50	1	22	53	1	21	15
55	1	20	59	1	21	42	1	21	57	1	24	18	1	22	37	1	21	29

MARCH 23 and 24, 1842.

Declination magnetometer.

M. T., Gött.	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	21	53	1	24	52	1	23	23	1	18	26	1	18	27	1	19	48
5	1	22	07	1	25	06	1	23	03	1	18	26	1	18	29	1	20	00
10	1	22	20	1	24	52	1	22	47	1	18	26	1	19	01	1	20	04
15	1	22	43	1	24	43	1	21	55	1	18	26	1	19	01	1	20	32
20	1	23	01	1	24	35	1	21	28	1	18	26	1	19	01	1	20	30
25	1	23	13	1	24	24	1	20	55	1	18	26	1	19	07	1	20	37
30	1	23	27	1	24	13	1	20	25	1	18	26	1	18	34	1	20	36
35	1	23	47	1	24	02	1	20	03	1	18	26	1	19	16	1	20	38
40	1	23	57	1	24	01	1	19	53	1	19	19	1	19	26	1	21	00
45	1	24	07	1	23	54	1	19	55	1	18	13	1	19	26	1	21	17
50	1	24	07	1	23	51	1	18	28	1	18	08	1	19	44	1	21	31
55	1	24	27	1	23	48	1	18	26	1	18	08	1	19	43	1	21	34

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	21	27	1	24	44	1	27	04	1	28	16	1	27	16	1	23	33
5	1	22	11	1	24	57	1	26	58	1	28	17	1	27	17	1	22	47
10	1	22	18	1	25	36	1	26	53	1	28	02	1	27	27	1	22	23
15	1	22	18	1	25	58	1	27	04	1	27	58	1	27	25	1	22	27
20	1	22	40	1	26	17	1	27	21	1	28	02	1	27	37	1	22	27
25	1	22	53	1	26	41	1	27	49	1	28	02	1	27	56	1	22	33
30	1	23	20	1	26	56	1	28	01	1	28	02	1	28	18	1	22	30
35	1	24	02	1	27	11	1	27	59	1	28	02	1	28	18	1	22	58
40	1	23	28	1	27	02	1	28	02	1	28	00	1	27	53	1	23	57
45	1	23	47	1	27	07	1	28	04	1	28	03	1	26	07	1	23	36
50	1	24	27	1	26	58	1	28	10	1	27	47	1	25	02	1	24	20
55	1	24	45	1	27	10	1	28	16	1	27	44	1	24	08	1	24	13

APRIL 20 and 21, 1842.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	27	28	1	27	10	1	26	02	1	25	06	1	24	59	1	25	20
5	1	27	28	1	27	10	1	25	34	1	24	57	1	24	38	1	23	29
10	1	27	38	1	27	10	1	25	08	1	24	44	1	24	35	1	20	35
15	1	27	38	1	26	54	1	25	16	1	24	36	1	24	49	1	21	04
20	1	27	38	1	26	54	1	25	34	1	21	55	1	25	25	1	21	06
25	1	27	38	1	27	04	1	25	34	1	21	08	1	25	48	1	20	00
30	1	27	28	1	27	11	1	25	35	1	20	24	1	25	49	1	20	02
35	1	27	28	1	26	50	1	25	22	1	21	02	1	25	49	1	22	39
40	1	27	15	1	26	50	1	24	59	1	21	41	1	24	54	1	24	52
45	1	27	15	1	26	18	1	24	57	1	23	22	1	24	39	1	26	31
50	1	27	15	1	26	28	1	24	57	1	23	35	1	25	14	1	29	33
55	1	27	10	1	26	02	1	24	40	1	24	21	1	25	04	1	29	03

TERM DAY OBSERVATIONS AT WASHINGTON—1842.

APRIL 20 and 21, 1842.

Declination magnetometer.

M. T., Gött.	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	27	53	1	20	29	1	24	01	1	25	18	1	35	03	1	24	55
5	1	25	42	1	21	05	1	24	01	1	25	32	1	33	37	1	24	28
10	1	23	16	1	21	12	1	23	48	1	25	32	1	32	23	1	24	00
15	1	16	50	1	21	13	1	23	50	1	26	25	1	30	40	1	23	03
20	1	11	14	1	21	39	1	23	50	1	26	58	1	29	58	1	22	35
25	1	09	11	1	22	07	1	23	50	1	26	28	1	29	52	1	22	18
30	1	09	14	1	23	18	1	24	03	1	26	10	1	29	11	1	21	30
35	1	11	47	1	24	01	1	24	23	1	27	58	1	27	33	1	21	26
40	1	14	50	1	24	23	1	24	28	1	30	06	1	27	08	1	21	24
45	1	16	30	1	24	38	1	24	44	1	32	22	1	27	08	1	21	22
50	1	17	28	1	24	40	1	24	53	1	34	49	1	26	27	1	21	18
55	1	19	16	1	24	39	1	25	00	1	36	01	1	25	38	1	21	16

	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	21	13	1	19	48	1	27	22	1	23	40	1	23	26	1	26	19
5	1	21	13	1	19	48	1	27	03	1	23	28	1	23	21	1	27	15
10	1	20	43	1	20	03	1	26	29	1	23	28	1	23	18	1	27	49
15	1	20	58	1	20	58	1	25	40	1	23	33	1	23	22	1	26	19
20	1	21	23	1	22	27	1	25	46	1	23	35	1	23	26	1	26	01
25	1	20	38	1	23	18	1	25	54	1	23	38	1	23	40	1	25	48
30	1	20	23	1	24	38	1	26	17	1	23	47	1	23	34	1	25	38
35	1	19	48	1	26	03	1	26	01	1	23	53	1	23	39	1	25	44
40	1	19	38	1	27	21	1	25	31	1	23	10	1	24	05	1	26	03
45	1	19	33	1	27	26	1	25	10	1	23	34	1	24	30	1	27	01
50	1	19	28	1	27	46	1	24	46	1	22	09	1	25	05	1	27	23
55	1	19	28	1	28	05	1	24	16	1	22	23	1	25	36	1	27	16

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	27	24	1	27	56	1	26	24	1	29	46	1	25	36	1	25	45
5	1	27	09	1	27	58	1	26	37	1	29	51	1	25	46	1	25	35
10	1	26	50	1	28	03	1	27	15	1	29	51	1	26	26	1	25	19
15	1	26	50	1	28	01	1	27	08	1	29	55	1	27	00	1	25	16
20	1	27	10	1	27	52	1	27	16	1	29	58	1	27	08	1	25	08
25	1	27	20	1	27	40	1	27	21	1	29	36	1	26	49	1	25	08
30	1	27	20	1	27	47	1	27	29	1	29	16	1	26	42	1	25	08
35	1	27	13	1	27	28	1	27	39	1	28	58	1	26	42	1	25	08
40	1	26	37	1	26	58	1	28	09	1	27	08	1	26	42	1	25	08
45	1	26	38	1	26	53	1	28	44	1	26	29	1	26	29	1	25	08
50	1	27	23	1	26	50	1	29	16	1	25	56	1	26	18	1	25	16
55	1	27	51	1	26	50	1	29	26	1	25	39	1	25	53	1	25	18

TERM DAY OBSERVATIONS AT WASHINGTON—1842.

MAY 27 and 28, 1842.

Declination magnetometer.

M. T., Gött.	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	27	11	1	26	22	1	26	18	1	24	50	1	25	48	1	25	08
5	1	27	01	1	26	28	1	26	16	1	24	46	1	25	48	1	25	52
10	1	26	50	1	26	28	1	26	03	1	24	48	1	26	18	1	25	56
15	1	26	48	1	26	13	1	25	53	1	25	08	1	26	10	1	25	23
20	1	26	48	1	26	10	1	25	53	1	25	08	1	26	06	1	24	54
25	1	26	53	1	26	06	1	25	59	1	25	08	1	26	02	1	24	51
30	1	26	41	1	26	08	1	25	02	1	25	23	1	25	56	1	24	58
35	1	26	51	1	26	08	1	25	47	1	25	10	1	25	56	1	25	18
40	1	26	56	1	26	15	1	25	28	1	25	21	1	26	08	1	25	31
45	1	26	56	1	26	20	1	25	05	1	25	31	1	26	00	1	25	38
50	1	26	51	1	26	20	1	24	38	1	25	31	1	25	48	1	25	43
55	1	26	38	1	26	20	1	24	50	1	25	38	1	25	15	1	25	50
	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	25	53	1	26	36	1	26	41	1	29	25	1	28	28	1	26	49
5	1	25	53	1	26	26	1	26	42	1	29	22	1	28	36	1	26	43
10	1	25	21	1	26	29	1	26	45	1	29	46	1	28	02	1	26	33
15	1	26	19	1	26	29	1	26	58	1	27	56	1	27	42	1	26	40
20	1	26	21	1	26	10	1	26	50	1	27	28	1	27	10	1	26	40
25	1	26	23	1	26	17	1	26	43	1	26	52	1	26	58	1	26	40
30	1	26	26	1	26	32	1	27	34	1	26	48	1	26	36	1	26	38
35	1	26	16	1	26	39	1	28	18	1	27	15	1	26	40	1	27	01
40	1	26	13	1	26	37	1	28	38	1	27	45	1	26	45	1	27	28
45	1	26	28	1	26	50	1	28	48	1	28	15	1	27	06	1	27	54
50	1	26	32	1	26	31	1	29	12	1	28	29	1	27	01	1	28	03
55	1	26	32	1	26	38	1	29	24	1	28	36	1	26	56	1	28	08
	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
0	1	28	02	1	25	58	1	23	02	1	21	18	1	21	06	1	22	55
5	1	27	49	1	25	49	1	23	14	1	20	54	1	20	46	1	23	08
10	1	27	28	1	25	40	1	23	29	1	21	23	1	20	48	1	23	19
15	1	27	15	1	25	30	1	23	03	1	21	27	1	21	02	1	23	28
20	1	27	09	1	25	22	1	22	28	1	21	27	1	21	06	1	23	25
25	1	26	54	1	25	25	1	22	30	1	21	44	1	21	51	1	23	45
30	1	26	32	1	24	34	1	22	10	1	23	06	1	21	41	1	24	20
35	1	26	21	1	24	20	1	21	50	1	21	08	1	21	55	1	24	48
40	1	26	05	1	24	06	1	21	46	1	21	43	1	21	28	1	25	08
45	1	26	09	1	23	56	1	21	37	1	21	35	1	21	49	1	25	30
50	1	26	05	1	23	40	1	21	11	1	21	12	1	22	26	1	25	48
55	1	26	00	1	23	28	1	21	16	1	20	59	1	22	50	1	25	51

TERM DAY OBSERVATIONS AT WASHINGTON—1842.

MAY 27 and 28, 1842.

M. T., Gött.	Declination magnetometer.																	
	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	26	05	1	28	32	1	30	13	1	31	57	1	32	25	1	31	27
5	1	26	42	1	28	22	1	30	04	1	32	03	1	32	38	1	31	29
10	1	26	58	1	28	03	1	30	26	1	31	53	1	32	16	1	31	21
15	1	27	14	1	28	27	1	30	55	1	32	11	1	32	16	1	31	11
20	1	27	36	1	28	34	1	30	49	1	32	23	1	32	10	1	31	11
25	1	27	38	1	28	30	1	31	01	1	32	39	1	32	10	1	31	08
30	1	27	40	1	28	55	1	31	04	1	32	42	1	32	10	1	31	14
35	1	28	16	1	29	01	1	31	11	1	32	44	1	32	19	1	30	45
40	1	28	23	1	29	25	1	31	21	1	32	52	1	32	12	1	30	34
45	1	28	34	1	29	43	1	31	39	1	32	33	1	32	12	1	30	15
50	1	28	39	1	29	50	1	31	45	1	32	38	1	31	51	1	30	06
55	1	28	42	1	30	14	1	31	52	1	32	33	1	31	48	1	29	55

JUNE 22 and 23, 1842.

	10 P. M.			11 P. M.			Midnight.			1 A. M.			2 A. M.			3 A. M.		
0	1	30	51	1	30	03	1	29	10	1	24	03	1	26	48	1	12	48
5	1	30	45	1	29	59	1	29	18	1	23	33	1	25	51	1	12	06
10	1	30	39	1	29	48	1	29	07	1	25	34	1	26	16	1	12	25
15	1	30	38	1	29	40	1	29	05	1	25	47	1	26	45	1	13	29
20	1	30	46	1	29	34	1	28	43	1	27	25	1	27	22	1	15	47
25	1	30	41	1	29	28	1	28	08	1	27	28	1	27	10	1	17	13
30	1	30	36	1	29	21	1	27	25	1	27	57	1	26	27	1	17	23
35	1	30	29	1	29	18	1	27	15	1	28	12	1	26	30	1	18	09
40	1	30	27	1	29	07	1	26	55	1	28	23	1	24	39	1	19	28
45	1	30	10	1	29	06	1	25	53	1	27	04	1	19	47	1	19	40
50	1	30	08	1	29	25	1	25	09	1	26	40	1	15	22	1	21	24
55	1	30	13	1	29	25	1	24	38	1	26	34	1	13	24	1	23	25

	4 A. M.			5 A. M.			6 A. M.			7 A. M.			8 A. M.			9 A. M.		
0	1	23	28	1	21	32	1	16	40	1	27	48	1	26	42	1	34	14
5	1	23	53	1	22	08	1	17	28	1	27	48	1	26	40	1	34	14
10	1	23	16	1	23	12	1	20	16	1	27	58	1	27	04	1	34	26
15	1	21	52	1	20	03	1	21	33	1	27	41	1	26	52	1	33	46
20	1	22	31	1	19	01	1	22	00	1	26	43	1	26	45	1	33	24
25	1	21	43	1	20	32	1	23	05	1	25	41	1	26	35	1	33	24
30	1	21	18	1	20	15	1	24	28	1	25	00	1	26	18	1	33	24
35	1	20	12	1	21	41	1	25	44	1	24	28	1	25	55	1	33	13
40	1	19	23	1	20	35	1	27	13	1	24	28	1	27	44	1	33	02
45	1	19	09	1	19	13	1	27	20	1	24	20	1	31	15	1	32	07
50	1	19	44	1	17	14	1	27	36	1	25	09	1	33	33	1	30	54
55	1	20	48	1	16	35	1	27	48	1	26	14	1	33	33	1	30	46

TERM DAY OBSERVATIONS AT WASHINGTON—1842.

JUNE 22 and 23, 1842.

Declination magnetometer.

M. T., Gött.	10 A. M.			11 A. M.			Noon.			1 P. M.			2 P. M.			3 P. M.		
′	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	1	30	00	1	24	45	1	21	53	1	25	07	1	24	27	1	24	00
5	1	29	28	1	24	04	1	23	24	1	24	14	1	24	49	1	24	47
10	1	28	39	1	23	28	1	24	19	1	25	38	1	24	11	1	25	10
15	1	28	30	1	23	05	1	24	41	1	24	48	1	24	31	1	25	00
20	1	27	33	1	23	05	1	24	34	1	25	23	1	24	36	1	24	18
25	1	27	33	1	23	18	1	23	57	1	25	15	1	24	25	1	24	02
30	1	26	35	1	23	48	1	23	11	1	25	25	1	24	03	1	25	16
35	1	26	18	1	23	48	1	23	24	1	25	12	1	23	38	1	25	17
40	1	25	58	1	24	08	1	23	22	1	25	12	1	23	58	1	25	20
45	1	25	47	1	23	46	1	24	34	1	25	08	1	24	26	1	25	28
50	1	25	10	1	22	34	1	24	44	1	25	13	1	23	58	1	25	53
55	1	25	10	1	22	11	1	25	07	1	24	58	1	24	24	1	25	50

	4 P. M.			5 P. M.			6 P. M.			7 P. M.			8 P. M.			9 P. M.		
0	1	26	29	1	28	02	1	28	18	1	29	27	1	32	28	1	31	08
5	1	26	29	1	27	51	1	29	13	1	29	58	1	32	19	1	31	25
10	1	26	14	1	27	58	1	29	33	1	30	20	1	31	53	1	31	38
15	1	27	15	1	28	27	1	29	58	1	30	36	1	31	30	1	31	20
20	1	27	34	1	28	08	1	29	47	1	31	00	1	31	31	1	31	21
25	1	27	13	1	28	36	1	29	36	1	31	10	1	30	48	1	31	22
30	1	27	54	1	28	42	1	29	20	1	31	08	1	30	20	1	31	14
35	1	27	49	1	28	32	1	29	09	1	31	44	1	30	10	1	31	10
40	1	27	40	1	28	44	1	28	52	1	31	27	1	30	07	1	30	41
45	1	27	56	1	28	34	1	29	02	1	31	38	1	30	33	1	30	22
50	1	28	03	1	28	15	1	29	14	1	32	22	1	30	23	1	30	29
55	1	28	03	1	28	06	1	29	31	1	32	16	1	30	41	1	30	27

EXTRAORDINARY OBSERVATIONS

OF THE

DECLINATION AT WASHINGTON,

(From 0*h*. 30*m*. P. M. to 2*h*. P. M., inclusive, Göttingen time,)

COMMENCING NOVEMBER 2, 1840, AND ENDING JUNE 20, 1841.

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1840.

M. T., Gött.	Declination magnetometer.																	
	November 2.			November 3.			November 4.			November 6.			November 7.			November 8.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	22	18	1	18	40	1	19	49	1	16	36	1	17	08	1	19	13
0 35	1	21	53	1	18	40	1	19	40	1	16	36	1	16	58	1	18	41
0 40	1	21	41	1	18	30	1	19	46	1	17	35	1	16	58	1	17	54
0 45	1	21	13	1	18	19	1	19	30	1	16	36	1	16	58	1	17	38
0 50	1	20	43	1	18	22	1	19	15	1	16	36	1	16	54	1	17	38
0 55	1	20	41	1	18	10	1	19	16	1	16	36	1	16	54	1	17	34
1 00	1	20	33	1	18	06	1	19	09	1	16	22	1	16	58	1	17	29
1 05	1	20	21	1	17	59	1	18	52	1	16	22	1	16	43	1	17	29
1 10	1	19	53	1	17	55	1	18	54	1	16	22	1	16	13	1	17	39
1 15	1	19	18	1	17	45	1	18	49	1	15	27	1	15	53	1	17	57
1 20	1	19	13	1	17	34	1	19	21	1	15	24	1	15	11	1	19	04
1 25	1	19	23	1	18	14	1	19	32	1	15	24	1	15	11	1	19	45
1 30	1	19	27	1	18	28	1	19	57	1	16	02	1	15	15	1	19	45
1 35	1	19	28				1	19	57	1	16	38	1	15	43	1	18	28
1 40	1	19	23				1	20	06	1	16	39	1	16	13	1	18	31
1 45	1	19	23				1	20	09	1	16	53	1	16	33	1	18	39
1 50	1	19	08				1	20	09	1	16	53	1	16	33	1	18	22
1 55	1	19	03				1	20	20	1	16	53	1	15	58	1	18	12

1840—Continued.

M. T., Gött.	Declination magnetometer.																	
	November 10.			November 11.			November 12.			November 13.			November 14.			November 15.		
0 30	1	18	59	1	21	32	1	18	19	1	18	12	1	20	44	1	25	57
0 35	1	19	20	1	21	32	1	18	19	1	17	52	1	20	41	1	24	33
0 40	1	18	59	1	21	09	1	18	09	1	17	52	1	20	38	1	24	17
0 45	1	18	53	1	21	23	1	18	09	1	17	49	1	20	38	1	24	11
0 50	1	18	20	1	21	40	1	18	26	1	16	49	1	20	21	1	25	39
0 55	1	18	08	1	21	40	1	18	26	1	16	14	1	20	09	1	25	33
1 00	1	17	22	1	21	40	1	18	26	1	16	07	1	19	49	1	25	33
1 05	1	17	24	1	21	40	1	17	56	1	16	40	1	19	41	1	25	32
1 10	1	17	12	1	21	40	1	18	55	1	16	40	1	19	41	1	23	50
1 15	1	16	45	1	18	36	1	17	46	1	16	24	1	19	41	1	25	09
1 20	1	15	59	1	18	41	1	17	46	1	16	24	1	18	49	1	25	15
1 25	1	15	53	1	19	36	1	17	26	1	16	24	1	18	41	1	26	46
1 30	1	15	41	1	19	33	1	17	16	1	16	15	1	18	35	1	27	44
1 35	1	15	31	1	19	34	1	16	49	1	16	56	1	18	35	1	26	24
1 40	1	15	19	1	20	37	1	17	13	1	17	27	1	18	35	1	25	48
1 45	1	15	36	1	18	26	1	17	13	1	18	06	1	18	35	1	24	41
1 50	1	15	59	1	18	26	1	17	13	1	18	25	1	18	25	1	23	15
1 55	1	15	29	1	18	18	1	17	13	1	18	44	1	18	25	1	23	19

1840—Continued.

M. T., Gött.	Declination magnetometer.																	
	November 16.			November 17.			November 18.			November 19.			November 20.			November 21.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	19	24	1	19	53	1	18	47	1	20	11	1	19	27	1	23	18
0 35	1	19	24	1	19	23	1	18	53	1	19	32	1	19	15	1	23	24
0 40	1	18	47	1	18	33	1	18	49	1	19	28	1	19	14	1	22	51
0 45	1	17	44	1	18	53	1	18	49	1	19	25	1	19	31	1	21	49
0 50	1	18	43	1	19	53	1	19	08	1	19	25	1	19	43	1	20	18
0 55	1	20	16	1	19	53	1	19	09	1	19	17	1	19	34	1	17	35
1 00	1	20	50	1	19	33	1	19	09	1	19	38	1	19	41	1	21	30
1 05	1	21	52	1	19	33	1	18	46	1	19	38	1	19	41	1	20	07
1 10	1	22	33	1	19	23	1	18	22	1	19	26	1	19	35	1	21	57
1 15	1	24	29	1	19	23	1	18	21	1	19	12	1	19	18	1	19	32
1 20	1	24	29	1	19	33	1	18	21	1	19	12	1	19	18	1	19	32
1 25	1	25	00	1	19	33	1	18	19	1	19	12	1	18	58	1	19	32
1 30	1	24	12	1	19	33	1	18	02	1	19	12	1	18	29	1	19	25
1 35	1	21	34	1	19	13	1	17	54	1	18	46	1	18	06	1	20	00
1 40	1	22	20	1	19	03	1	17	54	1	18	29	1	18	06	1	20	00
1 45	1	21	29	1	19	03	1	17	41	1	18	32	1	17	54	1	20	00
1 50	1	19	49	1	19	43	1	17	32	1	18	26	1	18	39	1	20	35
1 55	1	19	35	1	19	43	1	17	32	1	19	00	1	19	17	1	21	40

1840—Continued.

M. T., Gött.	Declination magnetometer.																	
	November 22.			November 23.			November 24.			November 25.			November 26.			November 27.		
0 30	1	21	39	1	21	24	1	19	21	1	19	10	1	19	23	1	19	36
0 35	1	22	01	1	21	40	1	19	29	1	19	32	1	19	23	1	19	03
0 40	1	22	33	1	20	59	1	19	32	1	18	54	1	19	23	1	18	50
0 45	1	23	39	1	20	29	1	19	49	1	18	54	1	19	23	1	19	00
0 50	1	24	49	1	19	49	1	20	20	1	18	59	1	19	23	1	19	00
0 55	1	26	00	1	19	33	1	20	09	1	18	59	1	19	23	1	19	06
1 00	1	26	18	1	18	59	1	20	22	1	18	59	1	19	23	1	18	51
1 05	1	26	49	1	19	31	1	21	41	1	18	59	1	19	23	1	18	51
1 10	1	27	24	1	19	17	1	21	38	1	18	14	1	19	23	1	16	51
1 15	1	27	59	1	18	50	1	21	38	1	18	18	1	19	19	1	18	44
1 20	1	28	15	1	18	55	1	21	38	1	18	18	1	19	36	1	18	44
1 25	1	28	29	1	18	55	1	21	40	1	18	18	1	20	00	1	18	44
1 30	1	28	09	1	19	21	1	21	40	1	18	18	1	19	09	1	18	22
1 35	1	27	55	1	19	16	1	21	40	1	18	18	1	19	02	1	18	22
1 40	1	27	39	1	20	12	1	21	25	1	17	35	1	18	49	1	18	49
1 45	1	27	06	1	19	59	1	21	12	1	17	35	1	18	31	1	18	19
1 50	1	25	59	1	19	04	1	20	34	1	18	24	1	18	12	1	18	45
1 55	1	24	58	1	19	06	1	20	47	1	18	02	1	18	12	1	17	37

1840—Continued.

M. T., Gött.	Declination magnetometer.																	
	November 28.			November 29.			December 1.			December 2.			December 3.			December 4.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	20	33	1	19	36	1	20	18	1	20	14	1	19	26	1	20	09
0 35	1	20	15	1	19	34	1	20	17	1	20	14	1	20	34	1	20	09
0 40	1	20	15	1	19	34	1	20	24	1	20	14	1	19	13	1	20	09
0 45	1	20	15	1	19	34	1	20	11	1	20	19	1	19	13	1	20	09
0 50	1	19	44	1	19	32	1	20	09	1	20	21	1	19	13	1	20	06
0 55	1	19	37	1	19	11	1	20	09	1	20	21	1	20	32	1	19	33
1 00	1	19	37	1	18	39	1	20	09	1	20	21	1	20	32	1	19	13
1 05	1	19	39	1	18	34	1	20	09	1	20	21	1	20	29	1	18	55
1 10	1	19	39	1	18	36	1	20	05	1	20	06	1	19	27	1	18	55
1 15	1	20	03	1	18	36	1	20	05	1	20	06	1	19	06	1	18	55
1 20	1	20	03	1	18	36	1	20	18	1	20	05	1	19	06	1	18	55
1 25	1	20	03	1	18	13	1	20	24	1	20	05	1	18	46	1	18	30
1 30	1	20	03	1	18	06	1	20	24	1	20	05	1	18	46	1	18	30
1 35	1	20	03	1	18	06	1	20	02	1	20	05	1	18	42	1	19	25
1 40	1	19	57	1	18	11	1	19	56	1	19	47	1	19	33	1	19	25
1 45	1	19	57	1	18	11	1	19	49	1	19	47	1	19	33	1	19	29
1 50	1	19	57	1	18	00	1	19	49	1	19	47	1	18	53	1	19	29
1 55	1	19	57	1	18	00	1	19	41	1	19	59	1	18	53	1	19	29

1840—Continued.

M. T., Gött.	Declination magnetometer.																	
	December 6.			December 7.			December 8.			December 9.			December 10.			December 11.		
0 30	1	19	55	1	21	08	1	20	47	1	20	59	1	20	27	1	20	15
0 35	1	20	02	1	20	52	1	20	47	1	20	43	1	20	27	1	19	58
0 40	1	20	02	1	20	52	1	20	47	1	20	43	1	20	27	1	19	49
0 45	1	20	08	1	20	52	1	20	47	1	20	43	1	20	27	1	19	49
0 50	1	20	09	1	20	31	1	20	47	1	20	43	1	20	27	1	19	45
0 55	1	20	09	1	20	31	1	20	47	1	20	43	1	20	27	1	19	40
1 00	1	20	09	1	20	50	1	20	47	1	20	56	1	20	21	1	20	05
1 05	1	20	11	1	20	31	1	20	47	1	20	57	1	20	21	1	19	36
1 10	1	20	20	1	20	24	1	20	47	1	20	57	1	20	21	1	19	29
1 15	1	20	03	1	20	36	1	20	47	1	20	57	1	20	21	1	19	12
1 20	1	20	08	1	20	28	1	20	47	1	20	57	1	20	18	1	19	12
1 25	1	20	08	1	20	28	1	20	47	1	20	45	1	20	18	1	19	16
1 30	1	20	11	1	20	28	1	20	47	1	20	45	1	20	18	1	19	09
1 35	1	20	11	1	20	19	1	20	47	1	20	45	1	20	18	1	19	09
1 40	1	20	09	1	20	39	1	20	47	1	20	45	1	20	18	1	18	58
1 45	1	20	15	1	20	17	1	20	47	1	20	45	1	20	18	1	18	50
1 50	1	20	15	1	20	17	1	20	39	1	20	42	1	20	00	1	18	26
1 55	1	20	15	1	19	46	1	20	22	1	20	42	1	20	00	1	18	21

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1840—Continued.

M. T., Gött.	Declination magnetometer.																	
	December 12.			December 13.			December 14.			December 15.			December 17.			December 18.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	33	02	1	21	44	1	21	55	1	21	13	1	21	45	1	22	20
0 35	1	33	23	1	21	44	1	21	20	1	21	17	1	21	45	1	22	20
0 40	1	33	39	1	21	44	1	21	07	1	21	17	1	21	20	1	22	20
0 45	1	32	39	1	21	44	1	21	27	1	21	17	1	21	51	1	20	56
0 50	1	32	19	1	21	44	1	21	27	1	21	17	1	21	57	1	20	56
0 55	1	31	36	1	21	44	1	20	46	1	21	10	1	22	17	1	20	36
1 00	1	31	01	1	21	44	1	20	46	1	21	10	1	22	29	1	20	26
1 05	1	30	43	1	21	44	1	20	21	1	21	06	1	23	00	1	20	26
1 10	1	31	09	1	20	07	1	20	21	1	21	04	1	23	26	1	20	26
1 15	1	31	09	1	20	07	1	20	21	1	21	04	1	23	43	1	20	33
1 20	1	29	38	1	20	07	1	20	30	1	20	52	1	24	07	1	20	33
1 25	1	28	06	1	19	35	1	20	30	1	20	56	1	24	47	1	20	33
1 30	1	27	04	1	19	35	1	19	53	1	20	41	1	25	37	1	20	33
1 35	1	26	38	1	21	19	1	19	53	1	20	41	1	24	39	1	20	33
1 40	1	26	38	1	21	46	1	19	53	1	20	41	1	24	39	1	20	33
1 45	1	26	38	1	20	45	1	19	53	1	20	29	1	24	01	1	20	47
1 50	1	26	53	1	19	25	1	19	53	1	20	25	1	24	01	1	20	47
1 55	1	26	58	1	19	25	1	19	53	1	20	18	1	23	17	1	20	47

1840—Continued.

M. T., Gött.	Declination magnetometer.																	
	December 19.			December 20.			December 21.			December 23.			December 24.			December 25.		
0 30	1	26	34	1	32	05	1	42	12	1	22	01	1	22	19	1	20	29
0 35	1	26	06	1	32	09	1	41	36	1	22	01	1	22	20	1	20	29
0 40	1	25	53	1	32	09	1	40	13	1	22	01	1	22	20	1	20	29
0 45	1	24	24	1	32	13	1	37	42	1	22	01	1	22	20	1	20	39
0 50	1	24	23	1	32	19	1	36	21	1	22	32	1	22	24	1	20	39
0 55	1	24	09	1	32	19	1	36	03	1	22	32	1	22	02	1	20	39
1 00	1	24	09	1	32	19	1	34	16	1	22	32	1	21	25	1	20	45
1 05	1	23	42	1	32	21	1	33	22	1	21	54	1	20	45	1	20	45
1 10	1	23	09	1	32	49	1	33	05	1	21	54	1	20	45	1	20	45
1 15	1	22	19	1	32	49	1	32	20	1	21	54	1	20	45	1	20	49
1 20	1	22	09	1	33	05	1	31	38	1	21	54	1	21	20	1	20	53
1 25	1	22	09	1	33	19	1	31	09	1	21	54	1	20	30	1	20	54
1 30	1	23	20	1	33	19	1	30	16	1	20	12	1	20	00	1	20	57
1 35	1	23	20	1	34	09	1	29	40	1	20	12	1	19	43	1	20	57
1 40	1	23	29	1	34	09	1	28	26	1	20	12	1	19	43	1	20	57
1 45	1	23	42	1	34	09	1	27	21	1	19	34	1	19	43	1	20	58
1 50	1	24	40	1	34	39	1	27	10	1	19	31	1	21	10	1	20	58
1 55	1	24	40	1	34	39	1	25	39	1	19	31	1	20	14	1	20	58

1840—Continued.

M. T., Gött.	Declination magnetometer.																	
	December 26.			December 27.			December 28.			December 29.			December 30.			December 31.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	21	09	1	20	08	1	20	28	1	28	49	1	19	05	1	21	29
0 35	1	21	09	1	20	08	1	20	28	1	27	43	1	19	05	1	21	29
0 40	1	21	09	1	20	12	1	20	21	1	26	52	1	19	03	1	21	27
0 45	1	21	09	1	20	12	1	20	16	1	25	39	1	19	01	1	21	27
0 50	1	21	09	1	20	12	1	20	09	1	25	46	1	19	00	1	21	27
0 55	1	21	09	1	20	12	1	20	09	1	25	05	1	18	59	1	21	21
1 00	1	21	09	1	19	43	1	20	06	1	24	42	1	18	57	1	21	15
1 05	1	21	09	1	19	36	1	20	02	1	24	42	1	18	57	1	21	15
1 10	1	21	09	1	19	21	1	20	02	1	24	41	1	18	57	1	21	12
1 15	1	21	09	1	19	05	1	20	02	1	24	41	1	18	57	1	21	12
1 20	1	20	41	1	19	01	1	20	02	1	24	10	1	18	55	1	21	06
1 25	1	20	41	1	19	01	1	19	53	1	24	00	1	18	55	1	21	06
1 30	1	20	41	1	19	03	1	19	53	1	23	52	1	18	55	1	21	06
1 35	1	20	41	1	19	15	1	19	53	1	24	21	1	18	55	1	20	48
1 40	1	20	45	1	19	15	1	19	53	1	24	21	1	18	55	1	20	42
1 45	1	20	45	1	18	44	1	19	53	1	24	21	1	18	57	1	20	30
1 50	1	20	45	1	18	29	1	19	53	1	23	06	1	19	03	1	20	23
1 55	1	20	45	1	18	20	1	19	53	1	23	13	1	19	05	1	20	23

1841.

M. T., Gött.	Declination magnetometer.																	
	January 1.			January 2.			January 3.			January 4.			January 5.			January 6.		
0 30	1	22	29	1	23	26	1	20	45	1	20	34	1	21	10	1	21	24
0 35	1	22	29	1	23	26	1	20	53	1	20	34	1	21	10	1	21	24
0 40	1	23	03	1	23	26	1	20	34	1	20	34	1	21	10	1	21	24
0 45	1	23	08	1	24	43	1	20	34	1	20	34	1	21	10	1	21	24
0 50	1	23	19	1	24	43	1	20	34	1	20	32	1	21	08	1	21	02
0 55	1	23	31	1	24	43	1	20	58	1	20	32	1	21	05	1	21	02
1 00	1	23	37	1	24	43	1	21	17	1	20	32	1	20	52	1	21	02
1 05	1	23	47	1	24	43	1	21	22	1	20	32	1	20	52	1	21	02
1 10	1	24	20	1	24	43	1	21	22	1	20	29	1	20	52	1	21	02
1 15	1	24	50	1	24	46	1	21	02	1	20	29	1	20	52	1	21	02
1 20	1	25	01	1	24	00	1	21	06	1	20	29	1	20	46	1	21	02
1 25	1	25	01	1	24	00	1	21	01	1	20	29	1	20	46	1	21	62
1 30	1	24	31	1	22	49	1	20	34	1	20	29	1	20	39	1	21	02
1 35	1	24	20	1	22	49	1	20	29	1	20	29	1	20	39	1	21	02
1 40	1	23	54	1	22	49	1	20	22	1	20	29	1	20	38	1	21	02
1 45	1	23	11	1	21	33	1	20	11	1	20	26	1	20	33	1	21	02
1 50	1	22	39	1	21	33	1	20	11	1	20	26	1	20	33	1	21	02
1 55	1	22	19	1	20	03	1	20	21	1	20	26	1	20	33	1	21	02

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	January 7.			January 8.			January 9.			January 10.			January 11.			January 12.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	19	20	1	27	31	1	15	39	1	16	01	1	13	49	1	13	56
0 35	1	19	20	1	27	31	1	15	39	1	16	01	1	13	49	1	13	56
0 40	1	19	20	1	27	31	1	15	39	1	15	54	1	13	49	1	13	56
0 45	1	19	20	1	27	31	1	15	39	1	15	54	1	13	49	1	13	56
0 50	1	19	48	1	27	31	1	15	39	1	15	42	1	13	49	1	13	34
0 55	1	19	48	1	26	16	1	15	39	1	15	32	1	13	49	1	13	34
1 00	1	20	20	1	26	16	1	15	39	1	15	00	1	13	49	1	13	34
1 05	1	20	40	1	24	03	1	15	39	1	14	51	1	13	49	1	13	34
1 10	1	20	40	1	23	41	1	15	39	1	14	51	1	13	59	1	13	14
1 15	1	20	40	1	23	07	1	15	39	1	14	51	1	13	51	1	13	14
1 20	1	20	40	1	22	42	1	15	39	1	14	10	1	13	51	1	13	04
1 25	1	20	40	1	21	50	1	15	39	1	14	10	1	13	51	1	13	04
1 30	1	21	36	1	22	05	1	15	39	1	13	51	1	13	51	1	13	04
1 35	1	21	36	1	21	50	1	15	39	1	13	30	1	13	51	1	13	04
1 40	1	21	36	1	21	27	1	15	39	1	13	30	1	13	51	1	12	30
1 45	1	21	36	1	21	27	1	15	39	1	13	30	1	13	51	1	12	30
1 50	1	22	13	1	20	27	1	15	39	1	13	25	1	13	51	1	11	47
1 55	1	22	13	1	20	27	1	15	39	1	13	25	1	13	51	1	11	37

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	January 13.			January 14.			January 15.			January 16.			January 17.			January 18.		
0 30	1	19	25	1	21	31	1	19	42	1	18	59	1	19	29	1	20	10
0 35	1	19	25	1	21	47	1	19	40	1	18	59	1	19	29	1	20	00
0 40	1	19	25	1	21	55	1	19	29	1	18	59	1	19	29	1	20	00
0 45	1	19	25	1	21	33	1	18	58	1	18	59	1	19	29	1	19	49
0 50	1	19	25	1	21	00	1	18	58	1	18	59	1	19	29	1	19	41
0 55	1	19	25	1	20	48	1	18	51	1	18	59	1	19	29	1	19	26
1 00	1	20	42	1	20	30	1	18	46	1	18	59	1	19	29	1	19	26
1 05	1	21	02	1	20	30	1	18	33	1	18	59	1	19	29	1	19	26
1 10	1	21	14	1	20	30	1	18	20	1	18	59	1	19	29	1	19	33
1 15	1	21	36	1	20	03	1	18	20	1	18	59	1	19	29	1	19	34
1 20	1	22	46	1	20	13	1	18	20	1	18	59	1	19	29	1	19	38
1 25	1	24	33	1	19	29	1	18	06	1	18	59	1	19	29	1	19	41
1 30	1	24	47	1	19	23	1	18	03	1	18	59	1	19	29	1	19	41
1 35	1	25	53	1	18	42	1	17	36	1	18	59	1	19	29	1	19	48
1 40	1	26	33	1	18	29	1	17	40	1	18	59	1	19	29	1	19	43
1 45	1	27	32	1	18	13	1	17	26	1	18	59	1	19	29	1	19	48
1 50	1	27	58	1	18	18	1	17	21	1	18	59	1	19	29	1	19	23
1 55	1	27	58	1	18	04	1	17	19	1	18	59	1	19	29	1	19	13

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	January 19.			January 20.			January 21.			January 22.			January 23.			January 24.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	19	49	1	22	47	1	19	50	1	19	31	1	20	11	1	19	59
0 35	1	19	49	1	22	42	1	19	32	1	19	31	1	20	11	1	19	59
0 40	1	19	49	1	22	40	1	19	32	1	19	31	1	20	11	1	19	49
0 45	1	19	49	1	22	31	1	19	47	1	19	31	1	20	11	1	19	49
0 50	1	19	49	1	22	20	1	19	32	1	19	31	1	20	11	1	19	47
0 55	1	19	49	1	22	11	1	19	18	1	19	31	1	20	11	1	19	47
1 00	1	19	48	1	22	38	1	19	18	1	19	31	1	20	11	1	19	42
1 05	1	19	48	1	22	52	1	19	18	1	19	12	1	20	11	1	19	36
1 10	1	19	44	1	23	03	1	19	18	1	19	12	1	19	55	1	19	36
1 15	1	19	48	1	23	20	1	18	57	1	19	12	1	19	55	1	19	32
1 20	1	19	51	1	23	26	1	18	57	1	19	12	1	19	55	1	19	32
1 25	1	19	51	1	23	32	1	18	57	1	18	55	1	19	55	1	19	32
1 30	1	19	51	1	23	36	1	18	49	1	18	55	1	19	55	1	19	29
1 35	1	19	57	1	23	50	1	18	42	1	18	55	1	18	30	1	19	26
1 40	1	21	33	1	24	06	1	18	34	1	18	29	1	18	30	1	19	24
1 45	1	21	33	1	24	13	1	18	34	1	18	29	1	18	30	1	19	26
1 50	1	21	33	1	24	15	1	18	27	1	18	29	1	18	30	1	19	16
1 55	1	21	33	1	24	24	1	18	27	1	18	29	1	18	30	1	19	16

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	January 25.			January 26.			January 27.			January 28.			January 29.			January 30.		
0 30	1	19	45	1	18	13	1	20	31	1	19	54	1	18	28	1	19	11
0 35	1	19	45	1	18	24	1	20	31	1	19	54	1	18	28	1	19	11
0 40	1	19	42	1	18	24	1	20	31	1	19	54	1	18	28	1	19	09
0 45	1	19	39	1	18	07	1	20	45	1	19	36	1	18	28	1	19	09
0 50	1	19	38	1	18	06	1	20	45	1	19	36	1	18	30	1	19	09
0 55	1	19	38	1	18	06	1	21	21	1	19	12	1	18	30	1	19	09
1 00	1	19	38	1	18	06	1	21	24	1	19	12	1	18	30	1	19	05
1 05	1	19	36	1	18	22	1	21	24	1	18	56	1	18	30	1	19	00
1 10	1	19	33	1	19	05	1	20	09	1	18	56	1	18	30	1	19	00
1 15	1	19	33	1	19	59	1	20	51	1	18	35	1	18	30	1	18	56
1 20	1	19	33	1	20	08	1	20	45	1	18	24	1	18	30	1	18	53
1 25	1	19	50	1	20	39	1	20	31	1	18	24	1	18	32	1	18	53
1 30	1	19	51	1	20	51	1	20	31	1	18	24	1	18	32	1	18	44
1 35	1	19	53	1	21	04	1	20	31	1	18	24	1	18	32	1	18	40
1 40	1	19	57	1	20	41	1	20	55	1	18	24	1	18	32	1	18	38
1 45	1	20	21	1	20	01	1	20	57	1	18	24	1	18	32	1	18	30
1 50	1	20	24	1	19	53	1	21	11	1	18	24	1	18	32	1	18	22
1 55	1	20	38	1	19	28	1	21	22	1	18	09	1	18	32	1	18	16

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	January 31.			February 1.			February 2.			February 3.			February 4.			February 5.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	19	22	1	20	00	1	19	55	1	19	22	1	19	12	1	19	39
0 35	1	19	22	1	20	00	1	19	55	1	19	22	1	19	12	1	19	39
0 40	1	19	13	1	20	03	1	19	55	1	19	22	1	19	09	1	19	39
0 45	1	19	01	1	19	45	1	19	55	1	19	22	1	19	09	1	19	39
0 50	1	18	39	1	19	45	1	19	55	1	19	22	1	19	09	1	19	30
0 55	1	18	39	1	19	33	1	19	55	1	19	22	1	19	06	1	19	19
1 00	1	18	22	1	19	29	1	19	35	1	19	22	1	19	00	1	19	19
1 05	1	18	10	1	19	21	1	19	55	1	19	22	1	19	00	1	19	11
1 10	1	18	22	1	19	03	1	19	18	1	19	22	1	19	00	1	18	50
1 15	1	18	39	1	19	03	1	19	21	1	19	22	1	18	52	1	18	39
1 20	1	18	39	1	17	16	1	19	18	1	19	22	1	18	52	1	18	39
1 25	1	18	39	1	17	16	1	19	18	1	19	22	1	18	46	1	18	48
1 30	1	18	19	1	17	16	1	18	39	1	19	22	1	18	42	1	18	48
1 35	1	17	59	1	17	16	1	18	39	1	19	22	1	18	39	1	18	36
1 40	1	17	59	1	16	42	1	18	39	1	19	22	1	18	37	1	18	23
1 45	1	17	48	1	16	42	1	18	04	1	18	42	1	18	34	1	18	09
1 50	1	17	19	1	16	42	1	17	56	1	18	42	1	18	34	1	18	03
1 55	1	16	55	1	16	42	1	17	43	1	18	42	1	18	34	1	17	51

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	February 6.			February 7.*			February 8.			February 9.*			February 10.			February 11.		
0 30	1	18	27	1	24	55	1	23	39	1	10	28	1	18	57	1	19	18
0 35	1	18	27	1	25	48	1	23	39	1	10	28	1	18	57	1	19	18
0 40	1	18	24	1	27	01	1	23	39	1	10	38	1	18	50	1	19	18
0 45	1	18	24	1	25	50	1	23	39	1	10	10	1	18	48	1	19	18
0 50	1	18	24	1	25	50	1	23	39	1	11	26	1	18	48	1	19	18
0 55	1	18	24	1	28	21	1	23	39	1	12	56	1	18	45	1	19	18
1 00	1	18	24	1	29	54	1	23	39	1	14	52	1	18	45	1	19	18
1 05	1	18	24	1	29	54	1	23	39	1	16	56	1	18	45	1	19	18
1 10	1	18	24	1	31	26	1	23	47	1	19	23	1	18	40	1	19	18
1 15	1	18	24	1	31	44	1	23	47	1	19	47	1	18	38	1	19	18
1 20	1	18	24	1	31	25	1	23	47	1	18	33	1	18	36	1	19	18
1 25	1	18	19	1	32	42	1	23	47	1	19	51	1	18	32	1	19	18
1 30	1	18	19	1	32	42	1	23	49	1	22	43	1	18	32	1	19	18
1 35	1	18	19	1	31	48	1	23	49	1	24	36	1	18	32	1	19	18
1 40	1	18	14	1	31	39	1	23	54	1	27	08	1	18	32	1	19	18
1 45	1	18	14	1	31	09	1	23	54	1	28	50	1	18	32	1	19	18
1 50	1	18	14	1	30	17	1	23	54	1	27	50	1	18	32	1	19	18
1 55	1	18	14	1	30	17	1	23	54	1	28	03	1	18	32	1	19	18

* Followed by snow storms.

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	February 12.			February 13.			February 14.			February 15.			February 16.			February 17.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	20	49	1	19	39	1	19	12	1	18	26	1	16	48	1	17	37
0 35	1	20	49	1	19	39	1	19	16	1	18	26	1	16	48	1	17	37
0 40	1	20	49	1	19	39	1	19	16	1	18	33	1	16	48	1	17	37
0 45	1	20	49	1	19	39	1	19	16	1	18	38	1	16	48	1	17	37
0 50	1	21	13	1	19	39	1	19	16	1	19	42	1	16	48	1	17	37
0 55	1	21	24	1	19	39	1	19	16	1	20	28	1	16	48	1	17	37
1 00	1	21	29	1	19	39	1	19	18	1	20	12	1	16	31	1	17	05
1 05	1	21	42	1	19	39	1	19	18	1	20	12	1	17	11	1	17	05
1 10	1	21	29	1	19	39	1	19	18	1	20	12	1	17	11	1	16	53
1 15	1	20	06	1	19	39	1	19	21	1	21	00	1	17	23	1	16	53
1 20	1	20	29	1	19	39	1	19	21	1	21	31	1	17	23	1	16	53
1 25	1	20	08	1	19	39	1	19	21	1	22	21	1	16	55	1	16	50
1 30	1	20	08	1	19	39	1	19	21	1	22	35	1	16	55	1	16	23
1 35	1	19	49	1	19	39	1	19	21	1	22	33	1	16	55	1	16	09
1 40	1	19	49	1	19	39	1	19	21	1	23	06	1	16	55	1	16	09
1 45	1	19	17	1	19	39	1	19	21	1	24	02	1	17	46	1	15	56
1 50	1	18	45	1	19	39	1	19	21	1	24	45	1	17	46	1	15	56
1 55	1	18	12	1	19	39	1	19	21	1	24	59	1	17	46	1	15	56

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	February 18.			February 19.			February 20.			February 21.			February 22.			February 23.		
0 30	1	18	18	1	18	20	1	18	28	1	16	29	1	17	14	1	15	29
0 35	1	18	23	1	18	20	1	18	01	1	16	29	1	16	51	1	15	29
0 40	1	18	11	1	18	20	1	17	55	1	16	29	1	16	51	1	15	29
0 45	1	18	03	1	18	15	1	17	40	1	16	27	1	16	51	1	15	39
0 50	1	18	03	1	18	10	1	17	40	1	16	27	1	16	51	1	15	39
0 55	1	18	03	1	18	10	1	17	51	1	16	27	1	16	51	1	15	54
1 00	1	17	54	1	18	16	1	17	51	1	16	25	1	16	51	1	15	54
1 05	1	17	39	1	18	09	1	18	14	1	16	25	1	16	51	1	15	54
1 10	1	17	21	1	18	07	1	18	22	1	16	25	1	16	51	1	15	54
1 15	1	17	21	1	18	07	1	18	22	1	16	19	1	16	07	1	15	05
1 20	1	17	16	1	18	12	1	18	22	1	16	19	1	15	41	1	15	06
1 25	1	17	16	1	18	09	1	18	22	1	16	19	1	15	08	1	15	41
1 30	1	17	16	1	18	04	1	18	00	1	16	19	1	15	08	1	16	21
1 35	1	17	16	1	18	08	1	17	42	1	16	16	1	15	08	1	17	24
1 40	1	17	37	1	18	04	1	17	32	1	16	16	1	15	08	1	17	54
1 45	1	16	45	1	18	04	1	17	18	1	16	16	1	15	08	1	18	32
1 50	1	16	41	1	18	03	1	17	06	1	16	16	1	15	08	1	18	32
1 55	1	16	41	1	18	02	1	16	39	1	16	16	1	15	08	1	18	50

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	February 24.			February 25.			February 26.			February 27.			February 28.			March 1.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	20	41	1	17	18	1	17	14	1	18	24	1	17	51			
0 35	1	20	34	1	17	18	1	17	45	1	18	24	1	17	51	1	19	49
0 40	1	20	28	1	17	18	1	18	44	1	18	18	1	17	51	1	19	58
0 45	1	20	28	1	17	18	1	18	44	1	18	18	1	17	51	1	20	12
0 50	1	20	20	1	17	18	1	18	51	1	18	00	1	17	51	1	20	10
0 55	1	20	21	1	17	18	1	18	51	1	17	43	1	17	51	1	20	22
1 00	1	20	11	1	17	18	1	19	10	1	17	32	1	17	59	1	20	26
1 05	1	20	00	1	17	18	1	19	10	1	17	32	1	17	59	1	20	41
1 10	1	19	51	1	17	18	1	18	54	1	17	12	1	17	59	1	20	50
1 15	1	19	46	1	17	18	1	18	54	1	16	56	1	18	05	1	21	06
1 20	1	19	46	1	17	18	1	18	32	1	16	56	1	18	05	1	21	07
1 25	1	19	26	1	17	21	1	18	32	1	16	34	1	18	05	1	21	16
1 30	1	19	15	1	17	21	1	18	32	1	15	58	1	18	05	1	21	18
1 35	1	18	58	1	17	21	1	19	52	1	15	46	1	18	05	1	21	30
1 40	1	18	42	1	17	23	1	20	09	1	15	16	1	18	05	1	21	42
1 45	1	18	38	1	17	23	1	20	40	1	14	51	1	18	05	1	21	50
1 50	1	18	37	1	17	23	1	20	40	1	15	20	1	18	05	1	22	06
1 55	1	18	34	1	17	23	1	20	35	1	15	20	1	18	05	1	22	20

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	March 2.			March 3.			March 4.			March 5.			March 6.			March 7.		
0 30	1	18	52	1	18	03	1	16	26	1	18	47	1	18	58	1	16	39
0 35	1	18	39	1	18	03	1	16	26	1	18	47	1	18	50	1	16	55
0 40	1	18	26	1	17	51	1	16	26	1	18	47	1	18	39	1	16	26
0 45	1	18	22	1	17	33	1	16	26	1	18	47	1	18	39	1	15	47
0 50	1	18	17	1	17	22	1	16	26	1	18	44	1	18	39	1	14	09
0 55	1	18	10	1	17	22	1	16	26	1	18	44	1	18	30	1	15	01
1 00	1	18	00	1	17	04	1	16	26	1	18	44	1	18	26	1	15	30
1 05	1	17	44	1	17	04	1	17	05	1	18	44	1	18	10	1	14	45
1 10	1	17	31	1	16	21	1	17	06	1	18	39	1	18	16	1	14	37
1 15	1	17	21	1	15	56	1	17	06	1	18	39	1	18	16	1	14	07
1 20	1	17	21	1	16	05	1	17	05	1	18	39	1	18	03	1	13	12
1 25	1	17	14	1	16	21	1	17	06	1	18	39	1	18	00	1	18	34
1 30	1	16	41	1	16	44	1	17	05	1	18	39	1	17	45	1	14	36
1 35	1	16	51	1	16	44	1	17	05	1	18	39	1	17	40	1	14	54
1 40	1	16	51	1	16	37	1	17	05	1	18	39	1	17	32	1	15	05
1 45	1	16	47	1	16	09	1	17	06	1	18	39	1	17	18	1	14	18
1 50	1	16	47	1	15	58	1	17	06	1	18	39	1	17	16	1	14	14
1 55	1	16	32	1	16	20	1	17	06	1	18	39	1	17	24	1	13	09

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	March 8.			March 9.			March 10.			March 11.			March 12.			March 13.		
h. m.	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
0 30	1	17	14	1	16	49	1	19	30	1	19	09	1	18	39	1	18	14
0 35	1	17	14	1	16	49	1	19	20	1	18	58	1	18	39	1	18	14
0 40	1	17	14	1	16	49	1	19	12	1	18	13	1	18	51	1	18	14
0 45	1	17	14	1	16	49	1	19	12	1	17	43	1	19	09	1	18	14
0 50	1	16	57	1	16	49	1	19	08	1	17	33	1	19	21	1	17	54
0 55	1	16	09	1	16	49	1	19	02	1	17	27	1	19	14	1	17	54
1 00	1	16	09	1	16	47	1	19	00	1	17	13	1	20	15	1	17	54
1 05	1	16	09	1	16	47	1	18	56	1	17	13	1	21	09	1	17	31
1 10	1	16	09	1	16	47	1	18	51	1	17	34	1	20	29	1	17	21
1 15	1	16	00	1	16	47	1	18	48	1	17	34	1	20	29	1	17	11
1 20	1	15	54	1	16	47	1	18	48	1	17	20	1	20	01	1	16	54
1 25	1	15	54	1	16	42	1	18	35	1	17	20	1	20	01	1	16	54
1 30	1	15	37	1	16	42	1	18	40	1	17	29	1	19	45	1	16	54
1 35	1	15	11	1	16	42	1	18	26	1	17	51	1	18	39	1	16	54
1 40	1	14	51	1	16	42	1	18	18	1	17	28	1	18	39	1	16	54
1 45	1	14	54	1	16	42	1	18	19	1	17	03	1	19	14	1	16	54
1 50	1	14	54	1	16	42				1	16	29	1	18	49	1	17	05
1 55	1	15	49	1	16	42	1	18	13	1	17	01	1	18	49	1	17	05

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	March 14.			March 15.			March 16.			March 17.			March 18.			March 19.		
0 30				1	16	25	1	15	18	1	18	39				1	16	26
0 35	1	18	12	1	16	52	1	15	18	1	18	39				1	16	14
0 40	1	18	09	1	16	52	1	15	18	1	18	37				1	16	07
0 45	1	18	06	1	16	58	1	15	18	1	18	37	1	18	22	1	16	07
0 50	1	18	06	1	16	58	1	15	18	1	18	37	1	18	16	1	16	07
0 55	1	18	00	1	16	07	1	15	18	1	18	34	1	18	09	1	16	23
1 00	1	17	51	1	16	58	1	15	18	1	18	33	1	18	09	1	16	40
1 05	1	17	46	1	17	56	1	14	43	1	18	33	1	17	56	1	16	34
1 10	1	17	40	1	18	38	1	14	43	1	18	33	1	17	50	1	16	34
1 15	1	17	21	1	19	01	1	14	43	1	18	33	1	17	43	1	16	34
1 20	1	17	33	1	15	49	1	14	43	1	18	33	1	17	43	1	16	49
1 25	1	17	24	1	16	45	1	14	43	1	18	29	1	17	34	1	17	12
1 30	1	17	09	1	16	28	1	14	43	1	18	29	1	17	32	1	17	12
1 35	1	17	06	1	16	53	1	14	43	1	18	29	1	17	30	1	17	04
1 40	1	17	00	1	17	07	1	14	43	1	18	29	1	17	20	1	17	33
1 45	1	16	52	1	17	17	1	14	43	1	18	29	1	17	15	1	17	41
1 50	1	16	59	1	17	24	1	14	57	1	18	29	1	17	10	1	17	49
1 55	1	17	04	1	17	14	1	14	59	1	18	29	1	17	04	1	17	05

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	March 20.			March 21.			March 22.			March 23.			March 24.			March 26.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	16	23	1	16	07				1	17	33	1	17	09			
0 35	1	16	23	1	16	07	1	14	29	1	17	83	1	17	09	1	18	10
0 40	1	16	23	1	16	07	1	14	15	1	17	54	1	16	50	1	18	00
0 45	1	16	23	1	16	07	1	13	58	1	17	58	1	16	50	1	17	48
0 50	1	16	23	1	16	07				1	17	44	1	15	21	1	17	31
0 55	1	16	23	1	16	07				1	17	49	1	15	05	1	17	28
1 00	1	16	23	1	16	07				1	18	22	1	14	50	1	17	11
1 05	1	16	16	1	16	07				1	19	03	1	15	48	1	19	03
1 10	1	16	16	1	16	07	1	13	20	1	19	24	1	15	48	1	18	03
1 15	1	16	16	1	16	07	1	13	09	1	19	55	1	15	48	1	17	41
1 20	1	17	10	1	16	07	1	13	00	1	20	22	1	15	48	1	17	21
1 25	1	17	10	1	16	04	1	12	49	1	21	02	1	15	48	1	16	56
1 30	1	16	54	1	16	04	1	12	39	1	21	51	1	14	57	1	16	36
1 35	1	16	54	1	15	59	1	12	26	1	22	06	1	12	13	1	16	20
1 40	1	17	54	1	15	59	1	12	15	1	22	17	1	14	19	1	16	20
1 45	1	18	32	1	15	59				1	21	56	1	14	19	1	16	11
1 50	1	19	24	1	15	59				1	21	03	1	15	22	1	15	50
1 55	1	19	24	1	15	59	1	09	24	1	20	59	1	15	22	1	15	50

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	March 27.			March 28.			March 29.			March 30.			March 31.			April 1.		
0 30	1	17	41	1	17	33	1	18	29				1	18	46	1	16	38
0 35	1	17	41	1	17	33	1	18	23				1	18	46	1	16	88
0 40	1	17	22	1	17	45	1	18	32				1	18	46	1	16	38
0 45	1	17	22	1	17	56	1	18	22	1	19	00	1	18	46	1	16	38
0 50	1	17	32	1	17	48	1	18	19	1	18	56	1	18	46	1	16	29
0 55	1	17	32	1	18	21	1	18	14	1	18	49	1	18	46	1	16	26
1 00	1	17	10	1	17	09	1	18	10	1	18	45	1	18	46	1	16	17
1 05	1	16	69	1	16	21	1	18	07	1	18	48	1	18	19	1	16	17
1 10	1	16	40	1	15	45	1	18	00	1	18	43	1	18	23	1	16	09
1 15	1	16	40	1	15	45	1	18	00	1	18	38	1	18	34	1	16	09
1 20	1	16	40	1	15	20	1	17	56	1	18	38	1	18	34	1	16	05
1 25	1	16	40	1	15	20	1	17	50	1	18	38	1	18	19	1	15	54
1 30	1	16	17	1	15	20	1	17	50	1	18	38	1	18	19	1	15	54
1 35	1	16	26	1	15	20	1	17	49	1	18	38	1	18	42	1	15	54
1 40	1	16	43	1	15	20	1	17	49	1	18	38	1	18	20	1	16	12
1 45	1	16	07	1	15	20	1	17	46	1	18	38	1	18	20	1	15	13
1 50	1	16	02	1	15	32	1	17	42	1	18	38	1	17	58	1	15	13
1 55	1	16	02	1	15	32	1	17	42	1	18	38	1	18	16	1	16	17

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	April 2.			April 3.			April 4.			April 5.			April 6.			April 7.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	17	49				1	19	30	1	17	54	1	17	34			
0 35	1	17	54	1	17	40	1	19	44	1	17	54	1	17	34			
0 40	1	17	48	1	17	51	1	19	44	1	18	01	1	17	34			
0 45	1	17	47	1	17	56	1	19	54	1	17	38	1	17	34	1	17	29
0 50	1	17	37	1	18	08	1	19	18	1	17	21	1	17	34	1	17	29
0 55	1	17	29	1	18	16	1	19	02	1	17	01	1	17	34	1	17	18
1 00	1	17	24	1	18	26	1	18	52	1	17	01	1	17	28	1	17	06
1 05	1	17	21	1	18	36	1	18	52	1	16	51	1	17	28	1	17	06
1 10	1	17	19	1	18	47	1	18	45	1	16	38	1	17	28	1	17	04
1 15	1	17	18	1	19	01	1	19	05	1	16	19	1	17	28	1	16	59
1 20	1	17	15	1	19	21	1	19	21	1	16	19	1	17	24	1	16	59
1 25	1	17	10	1	19	52	1	19	27	1	17	03	1	17	24	1	16	59
1 30	1	17	09	1	20	07	1	19	47	1	17	03	1	17	21	1	16	59
1 35	1	17	09	1	20	07	1	19	49	1	16	17	1	17	24	1	16	59
1 40	1	17	09	1	20	07	1	19	49	1	15	26	1	17	24	1	16	59
1 45	1	17	05	1	20	07	1	19	08	1	15	59	1	17	24	1	16	59
1 50	1	17	02	1	20	07	1	18	52	1	15	39	1	17	24	1	16	59
1 55	1	17	02	1	20	07	1	18	31	1	15	59	1	17	24	1	16	59

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	April 8.			April 9.			April 10.			April 11.			April 12.			April 13.		
0 30	1	17	25				1	17	44	1	13	25				1	19	51
0 35	1	17	10	1	18	06	1	17	44	1	13	25	1	17	09	1	19	36
0 40	1	16	44	1	17	47	1	17	44	1	13	25	1	17	09	1	19	27
0 45	1	15	52	1	17	47	1	17	44	1	13	25	1	17	20	1	19	09
0 50	1	15	52	1	17	47	1	17	36	1	13	25	1	17	36	1	19	24
0 55	1	16	09	1	17	24	1	17	36	1	13	25	1	17	08	1	19	43
1 00	1	16	16	1	17	02	1	17	17	1	13	26	1	17	00	1	20	09
1 05	1	16	29	1	16	46	1	17	17	1	13	25	1	17	00	1	20	47
1 10	1	17	05	1	16	46	1	17	17	1	13	25	1	16	49	1	20	57
1 15	1	17	24	1	16	46	1	17	05	1	13	28	1	16	46	1	22	08
1 20	1	17	58	1	16	46	1	16	59	1	13	33	1	16	40	1	21	54
1 25	1	18	56	1	16	46	1	16	59	1	13	39	1	16	40	1	21	47
1 30	1	19	57	1	16	46	1	16	59	1	13	43	1	16	40	1	22	41
1 35	1	19	57	1	16	46	1	16	59	1	13	59	1	16	40	1	22	45
1 40	1	20	24	1	16	46	1	16	54	1	13	59	1	16	40	1	22	45
1 45	1	20	24	1	16	06	1	16	45	1	14	01	1	16	40	1	22	58
1 50	1	20	29	1	15	44	1	16	45	1	14	01	1	16	40	1	22	04
1 55	1	20	29	1	15	44	1	16	45	1	14	01	1	16	40	1	21	47

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	April 14.			April 15.			April 16.			April 17.			April 18.			April 19.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	18	14	1	18	19	1	17	49				1	16	11	1	18	04
0 35	1	17	54	1	18	10	1	17	49	1	17	03	1	16	11	1	18	04
0 40	1	17	54	1	18	04	1	17	49	1	17	03	1	17	02	1	18	54
0 45	1	17	54	1	18	04	1	17	49	1	16	58	1	17	37	1	18	54
0 50	1	17	54	1	17	54	1	18	07	1	16	58	1	17	37	1	19	04
0 55	1	17	54	1	17	54	1	18	07	1	16	58	1	18	03	1	19	04
1 00	1	17	20	1	17	54	1	18	07	1	16	58	1	16	29	1	19	04
1 05	1	17	20	1	17	54	1	18	07	1	16	58	1	15	53	1	19	04
1 10	1	17	20	1	17	39	1	18	07	1	16	50	1	16	14	1	19	29
1 15	1	17	20	1	17	39	1	18	09	1	16	50	1	16	34	1	19	29
1 20	1	17	20	1	17	39	1	18	09	1	16	46	1	16	38	1	18	24
1 25	1	17	20	1	17	20	1	18	09	1	16	46	1	17	17	1	18	04
1 30	1	16	54	1	17	20	1	18	10	1	16	46	1	17	06	1	18	04
1 35	1	16	54	1	17	20	1	18	10	1	16	46	1	16	44	1	18	04
1 40	1	16	54	1	17	20	1	18	14	1	16	46	1	16	44	1	17	14
1 45	1	16	43	1	17	20	1	18	41	1	16	46	1	17	10	1	17	07
1 50	1	16	43	1	17	20	1	18	14	1	16	46	1	17	33	1	17	07
1 55	1	16	43	1	17	20	1	18	14	1	16	46	1	17	43	1	16	54

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	April 20.			April 21.			April 23.			April 24.			April 25.			April 26.		
0 30				1	16	07	1	17	29	1	19	29						
0 35	1	16	54	1	16	07	1	17	38	1	19	29	1	19	29	1	18	11
0 40	1	17	04	1	16	07	1	17	41	1	19	29	1	19	29	1	17	58
0 45	1	17	54	1	16	07	1	17	33	1	19	29	1	19	29	1	17	50
0 50	1	18	34	1	16	07	1	17	28	1	19	29	1	19	29	1	17	45
0 55	1	18	34	1	16	07	1	17	28	1	19	14	1	19	29	1	17	28
1 00	1	18	54	1	15	54	1	17	28	1	19	14	1	19	05	1	17	36
1 05	1	19	04	1	15	54	1	17	28	1	19	00	1	19	05	1	17	25
1 10	1	18	20	1	15	54	1	17	01	1	19	00	1	19	16	1	17	09
1 15	1	17	54	1	15	54	1	16	41	1	19	00	1	19	16	1	17	30
1 20	1	17	39	1	15	49	1	16	45	1	18	49	1	19	16	1	17	39
1 25	1	17	24	1	15	49	1	16	28	1	18	19	1	18	59	1	17	42
1 30	1	17	24	1	15	49	1	16	28	1	18	19	1	18	29	1	17	42
1 35	1	15	49	1	15	49	1	16	40	1	18	19	1	18	29	1	17	51
1 40	1	16	14	1	15	43	1	16	40	1	18	19	1	18	04	1	18	00
1 45	1	16	14	1	15	43	1	16	40	1	18	14	1	17	24	1	18	05
1 50	1	16	14	1	15	43	1	16	30	1	18	14	1	17	24	1	18	05
1 55	1	16	14	1	15	43	1	16	17	1	18	14	1	17	24	1	18	05

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	April 27.			April 28.			April 29.			April 30.			May 1.			May 2.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30	1	16	31	1	19	44							1	14	42	1	17	38
0 35	1	16	37	1	19	44	1	17	43	1	17	29	1	14	58	1	17	37
0 40	1	16	54	1	19	44	1	17	43	1	17	26	1	14	49	1	17	38
0 45	1	16	54	1	19	14	1	17	40	1	17	20	1	14	24	1	17	02
0 50	1	16	36	1	19	14	1	17	40	1	17	31	1	13	44	1	17	02
0 55	1	16	41	1	19	14	1	17	40	1	17	23	1	13	44	1	16	32
1 00	1	16	41	1	19	14	1	17	40	1	17	23	1	13	35	1	16	32
1 05	1	16	00	1	19	14	1	17	34	1	17	23	1	13	44	1	16	25
1 10	1	15	41	1	19	14	1	17	39	1	17	23	1	13	56	1	16	19
1 15	1	15	48	1	19	14	1	17	19	1	17	23	1	13	56	1	16	09
1 20	1	16	16	1	19	19	1	17	14	1	17	30	1	13	56	1	16	09
1 25	1	16	43	1	19	19	1	17	12	1	17	36	1	14	24	1	16	09
1 30	1	17	09	1	19	31	1	17	09	1	17	36	1	14	30	1	16	09
1 35	1	17	09	1	19	31	1	17	09	1	17	43	1	13	34	1	16	09
1 40	1	17	09	1	19	54	1	17	16	1	17	43	1	14	38	1	16	04
1 45	1	17	31	1	19	54	1	17	04	1	17	43	1	14	23	1	15	59
1 50	1	17	40	1	19	54	1	16	54	1	17	43	1	15	28	1	15	51
1 55	1	17	13	1	19	54	1	17	09	1	17	43	1	14	32	1	15	54

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	May 3.			May 4.			May 5.			May 6.			May 7.			May 8.		
0 30	1	16	08	1	18	34				1	15	27				1	16	39
0 35	1	16	08	1	18	09	1	17	09	1	14	49	1	16	04	1	16	39
0 40	1	15	46	1	17	14	1	17	20	1	14	18	1	16	24	1	16	39
0 45	1	15	46	1	17	14	1	17	20	1	14	33	1	16	54	1	16	39
0 50	1	15	46	1	16	54	1	17	06	1	15	15	1	16	54	1	16	39
0 55	1	15	15	1	16	54	1	17	02	1	15	15	1	16	54	1	16	39
1 00	1	14	54	1	16	54	1	16	53	1	15	15	1	16	47	1	16	39
1 05	1	14	54	1	17	04	1	16	48	1	14	55	1	16	47	1	16	39
1 10	1	15	15	1	17	19	1	16	39	1	14	37	1	16	15	1	16	39
1 15	1	14	54	1	18	44	1	16	33	1	14	59	1	16	15	1	16	34
1 20	1	14	39	1	18	39	1	16	26	1	15	38	1	16	04	1	16	34
1 25	1	14	59	1	18	49	1	16	21	1	15	38	1	16	04	1	16	34
1 30	1	14	59	1	18	59	1	16	09	1	14	24	1	16	04	1	16	34
1 35	1	14	59	1	19	04	1	16	01	1	14	34	1	16	29	1	16	34
1 40	1	14	59	1	19	04	1	15	50	1	15	19	1	16	54	1	16	27
1 45	1	14	18	1	19	04	1	15	43	1	15	19	1	16	34	1	16	27
1 50	1	14	18	1	19	04	1	15	40	1	15	19	1	16	22	1	16	27
1 55	1	13	54	1	19	04	1	15	31	1	15	00	1	16	22	1	16	16

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	May 9.			May 10.			May 11.			May 12.			May 13.			May 14.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30				1	11	20	1	16	28							1	18	14
0 35	1	17	20	1	12	06	1	15	54	1	18	44	1	17	21	1	18	14
0 40	1	17	11	1	14	42	1	15	54	1	18	34	1	17	19	1	18	25
0 45	1	17	00	1	16	51	1	15	54	1	18	14	1	17	15	1	18	25
0 50	1	16	58	1	17	33	1	15	39	1	18	04	1	17	09	1	18	25
0 55	1	16	41	1	17	33	1	15	39	1	17	34	1	17	09	1	18	14
1 00	1	16	29	1	19	14	1	15	39	1	16	41	1	16	41	1	18	14
1 05	1	16	15	1	22	28	1	15	39	1	16	29	1	16	58	1	18	27
1 10	1	16	08	1	22	55	1	15	39	1	16	29	1	16	56	1	18	27
1 15	1	16	00	1	23	42	1	15	39	1	16	29	1	17	02	1	18	34
1 20	1	15	49	1	25	51	1	15	39	1	16	54	1	17	06	1	18	19
1 25	1	15	42	1	26	28	1	15	39	1	17	04	1	17	12	1	18	19
1 30	1	15	38	1	26	32	1	15	39	1	17	04	1	17	18	1	18	19
1 35	1	15	33	1	27	23	1	15	39	1	17	04	1	17	19	1	18	19
1 40	1	15	30	1	26	30	1	15	39	1	17	04	1	17	26	1	18	27
1 45	1	15	18	1	26	13	1	15	39	1	17	04	1	17	39	1	18	27
1 50	1	15	12	1	25	52	1	15	39	1	17	04	1	17	50	1	18	30
1 55	1	15	04	1	27	24	1	15	39	1	17	04	1	17	59	1	18	42

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	May 15.			May 16.			May 17.			May 18.			May 19.			May 20.		
0 30				1	16	24	1	22	24				1	16	59	1	17	24
0 35	1	17	14	1	16	24	1	22	24	1	19	16	1	16	25	1	17	24
0 40	1	17	14	1	16	02	1	22	26	1	19	11	1	16	25	1	17	04
0 45	1	17	29	1	16	02	1	22	26	1	19	12	1	16	45	1	16	44
0 50	1	17	29	1	16	02	1	21	54	1	19	07	1	16	45	1	16	39
0 55	1	17	35	1	16	02	1	21	34	1	19	01	1	16	45	1	16	39
1 00	1	17	35	1	16	14	1	20	49	1	18	58	1	16	45	1	16	24
1 05	1	17	35	1	16	14	1	20	04	1	18	46	1	16	26	1	16	09
1 10	1	17	49	1	16	24	1	19	34	1	18	30	1	16	07	1	16	09
1 15	1	17	49	1	16	24	1	18	54	1	18	20	1	15	55	1	16	06
1 20	1	17	49	1	16	24	1	18	54	1	18	11	1	16	07	1	16	06
1 25	1	17	49	1	16	24	1	19	04	1	18	11	1	16	24	1	16	06
1 30	1	17	53	1	16	29	1	19	44	1	17	56	1	16	34	1	15	24
1 35	1	17	58	1	16	29	1	19	44	1	17	42	1	16	34	1	14	44
1 40	1	18	06	1	16	29	1	19	24	1	17	35	1	16	40	1	14	44
1 45	1	18	06	1	16	29	1	19	54	1	17	35	1	16	46	1	14	44
1 50	1	18	06	1	16	54	1	20	29	1	17	35	1	16	57	1	14	44
1 55	1	18	06	1	16	54	1	21	09				1	16	29	1	14	49

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	May 21.			May 22.			May 23.			May 24.			May 25.			May 26.		
h. m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0 30										1	17	52	1	15	44	1	19	18
0 35	1	18	14	1	16	54	1	17	25	1	17	52	1	15	44	1	19	28
0 40	1	18	14	1	16	34	1	17	21	1	17	45	1	15	44	1	19	11
0 45	1	17	09	1	16	34	1	17	21	1	17	09	1	15	44	1	18	49
0 50	1	16	42	1	16	14	1	17	10	1	17	09	1	15	44	1	18	49
0 55	1	16	54	1	16	14	1	17	05	1	17	09	1	15	54	1	18	49
1 00	1	17	28	1	15	44	1	17	00	1	16	38	1	15	54	1	18	49
1 05	1	16	57	1	16	04	1	16	56	1	16	38	1	15	54	1	18	21
1 10	1	16	24	1	16	24	1	16	21	1	16	35	1	15	54	1	18	05
1 15	1	16	30	1	15	54	1	16	00	1	16	40	1	15	54	1	18	14
1 20				1	15	54	1	15	52	1	16	53	1	15	54	1	18	17
1 25				1	15	14	1	16	06	1	17	08	1	15	54	1	18	17
1 30				1	15	04	1	16	20	1	16	59	1	15	55	1	18	09
1 35				1	14	54	1	16	30	1	17	09	1	15	54	1	18	09
1 40				1	14	34	1	16	42	1	16	41	1	15	54	1	17	51
1 45				1	15	24	1	16	42	1	16	41	1	15	44	1	17	38
1 50				1	15	39	1	16	53	1	16	48	1	15	39	1	17	38
1 55				1	17	19	1	17	00	1	16	29	1	15	49	1	17	46

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	May 27.			May 28.			May 30.			May 31.			June 1.			June 2.		
0 30	1	19	54							1	15	39	1	16	14			
0 35	1	18	34	1	15	59	1	16	09	1	15	39	1	16	17	1	17	20
0 40	1	18	04	1	15	59	1	16	09	1	15	37	1	16	16	1	17	18
0 45	1	18	04	1	15	51	1	16	09	1	15	37	1	15	24	1	17	11
0 50	1	18	04	1	15	49	1	16	04	1	15	34	1	15	16	1	17	02
0 55	1	18	04	1	15	46	1	16	04	1	15	34	1	15	14	1	17	02
1 00	1	17	54	1	15	42	1	15	59	1	15	34	1	15	06	1	17	02
1 05	1	17	29	1	15	39	1	15	46	1	15	17	1	15	06	1	16	56
1 10	1	16	39	1	15	36	1	15	34	1	15	02	1	15	06	1	16	49
1 15	1	16	17	1	15	36	1	15	34	1	14	29	1	15	06	1	17	05
1 20	1	16	54	1	15	47	1	16	14	1	14	44	1	15	06	1	17	20
1 25	1	17	24	1	16	07	1	16	19	1	15	07	1	15	06	1	17	40
1 30	1	17	54	1	16	30	1	16	34	1	15	07	1	15	06	1	17	53
1 35	1	19	17	1	16	44	1	16	34	1	15	07	1	15	09	1	17	56
1 40	1	19	54	1	16	51	1	16	54	1	15	12	1	15	16	1	17	56
1 45	1	18	04	1	17	08	1	17	02	1	15	28	1	15	16	1	17	52
1 50	1	20	37	1	17	20	1	17	02	1	15	28	1	15	04	1	17	54
1 55	1	20	37	1	17	21	1	17	18	1	15	28	1	15	04	1	17	54

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	June 3.			June 4.			June 5.			June 6.			June 7.			June 8.		
h. m.	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
0 30	1	16	22	1	14	31										1	17	04
0 35	1	16	41	1	14	31	1	17	39	1	14	44	1	16	25	1	17	33
0 40	1	16	59	1	13	54	1	17	39	1	14	44	1	16	25	1	17	33
0 45	1	17	15	1	13	19	1	17	22	1	14	34	1	16	16	1	17	25
0 50	1	17	27	1	13	19	1	17	07	1	14	34	1	16	05	1	17	06
0 55	1	17	32	1	13	19	1	16	50	1	14	34	1	15	51	1	16	57
1 00	1	17	35	1	13	19	1	16	36	1	14	34	1	15	46	1	17	04
1 05	1	17	35	1	13	29	1	16	34	1	14	34	1	15	38	1	17	09
1 10	1	17	35	1	13	54	1	16	29	1	14	39	1	15	28	1	17	14
1 15	1	17	35	1	13	54	1	16	14	1	15	04	1	15	10	1	17	14
1 20	1	17	32	1	13	54	1	15	59	1	15	04	1	14	56	1	17	14
1 25	1	17	32	1	13	54	1	15	44	1	15	04	1	14	35	1	17	01
1 30	1	17	44	1	13	54	1	15	39	1	15	06	1	14	26	1	17	01
1 35	1	17	44	1	13	54	1	15	39	1	15	14	1	14	22	1	17	14
1 40	1	17	44	1	14	14	1	15	39	1	15	29	1	14	16	1	16	58
1 45	1	17	55	1	14	14	1	15	30	1	15	54	1	14	16	1	16	58
1 50	1	18	06	1	14	27	1	15	18	1	16	14	1	14	18	1	16	58
1 55	1	18	15	1	14	27	1	15	07	1	16	34	1	14	21	1	17	40

1841—Continued.

M. T., Gött.	Declination magnetometer.																	
	June 9.			June 10.			June 11.			June 12.			June 13.			June 15.		
0 30	1	16	54							1	16	07	1	19	09			
0 35	1	16	54	1	17	41	1	16	20	1	16	21	1	19	09	1	13	39
0 40	1	17	54	1	17	34	1	16	19	1	16	29	1	19	04	1	13	29
0 45	1	17	54	1	17	34	1	16	14	1	16	34	1	19	04	1	12	54
0 50	1	18	09	1	17	28	1	16	09	1	16	34	1	18	54	1	12	39
0 55	1	18	09	1	17	11	1	15	54	1	16	28	1	18	19	1	12	39
1 00	1	18	14	1	17	01	1	15	21	1	16	28	1	18	19	1	12	54
1 05	1	18	04	1	16	54	1	15	21	1	16	19	1	18	04	1	13	09
1 10	1	17	34	1	16	54	1	15	24	1	16	04	1	18	04	1	13	19
1 15	1	17	14	1	16	16	1	15	49	1	16	04	1	17	54	1	14	34
1 20	1	17	14	1	16	37	1	15	54	1	15	52	1	17	24	1	14	34
1 25	1	17	42	1	17	11	1	15	54	1	16	03	1	17	19	1	14	09
1 30	1	17	42	1	17	36	1	15	54	1	16	03	1	17	09	1	13	50
1 35	1	17	53	1	17	45	1	15	59	1	16	40	1	17	09	1	13	34
1 40	1	18	04	1	17	45	1	16	04	1	16	35	1	16	54	1	14	14
1 45	1	17	19	1	17	44	1	16	09	1	16	37	1	16	54	1	14	26
1 50	1	17	09	1	17	25	1	16	09	1	16	37	1	16	34	1	14	42
1 55	1	16	34	1	17	25	1	16	09	1	17	26	1	16	34	1	15	01

1841—Continued.

M. T., Gött.		Declination magnetometer.														
		June 16.			June 17.			June 18.			June 19.			June 20.		
h.	m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
0	30	1	17	37	1	18	04							1	16	16
0	35	1	17	37	1	18	04	1	19	49	1	16	29	1	16	16
0	40	1	17	03	1	17	29	1	19	37	1	16	29	1	16	16
0	45	1	16	50	1	17	29	1	19	17	1	16	29	1	16	16
0	50	1	16	50	1	17	09	1	19	12	1	16	49	1	15	54
0	55	1	16	37	1	17	04	1	19	04	1	16	49	1	15	54
1	00	1	16	37	1	17	04	1	19	04	1	16	49	1	16	09
1	05	1	16	37	1	16	54	1	19	04	1	16	49	1	16	09
1	10	1	16	37	1	16	54	1	19	11	1	16	49	1	16	00
1	15	1	16	51	1	16	44	1	19	20	1	16	59	1	16	09
1	20	1	16	36	1	16	29	1	19	29	1	17	04	1	16	09
1	25	1	16	36	1	16	24	1	19	29	1	17	14	1	16	09
1	30	1	16	16	1	16	24	1	18	45	1	17	14	1	16	02
1	35	1	15	46	1	16	29	1	19	03	1	17	24	1	16	02
1	40	1	16	37	1	16	24	1	19	27	1	17	29	1	16	02
1	45	1	16	58	1	16	28	1	19	27	1	17	34	1	16	02
1	50	1	16	58	1	16	19	1	20	22	1	17	42	1	16	22
1	55	1	17	14	1	16	29	1	20	22	1	17	59	1	16	22

1840.

July 24, 1840.		July 25, 1840.				July 26, 1840.		
M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	
							4 hours.	5 hours.
h. m.	° ′ ″	h. m.	° ′ ″	h. m.	° ′ ″	m.	° ′ ″	° ′ ″
15 20	1 14 38	0 30	1 17 35	9 00	1 16 25	00		1 15 28
16 30	1 16 45	1 00	1 16 35	9 30	1 16 51	05	1 14 19	1 14 49
17 00	1 18 19	1 30	1 18 39	10 30	1 16 26	10	1 13 47	1 14 09
17 30	1 20 24	2 30	1 18 50	11 00	1 16 04	15	1 12 07	1 14 09
18 30	1 21 47	3 00	1 18 39	11 30	1 15 23	20	1 12 02	1 14 09
19 00	1 23 25	3 30	1 17 25	12 25	1 13 59	25	1 12 29	1 14 09
19 30	1 24 09	4 30	1 16 24	13 00	1 13 00	30	1 13 09	1 14 34
20 30	1 21 17	5 00	1 16 47	13 30	1 14 14	35	1 13 49	1 14 34
21 00	1 20 40	5 30	1 16 35	14 30	1 14 35	40	1 14 26	1 14 34
21 30	1 20 40	6 30	1 17 04	15 00	1 13 20	45	1 14 23	1 15 01
22 30	1 19 24	7 00	1 17 17			50	1 15 01	1 15 36
23 00	1 18 24	7 30	1 17 17			55	1 15 15	1 15 36
23 30	1 18 10	8 30	1 16 36					

1840—Continued.

July 29, 1840.		July 30, 1840.		Observations during the aurora, July 30, 1840.	
M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.
h. m.	° ′ ″	h. m.	° ′ ″	h. m.	° ′ ″
17 00	1 21 06	0 30	1 17 44	3 35	1 08 56
18 30	1 23 34	1 00	1 17 41	3 40	1 10 25
19 00	1 24 31	3 00	1 17 24	3 45	1 12 25
19 25	1 24 31	5 00	1 17 23	3 50	1 13 41
20 30	1 23 04	10 35	1 14 34	3 55	1 14 47
23 00	1 18 19	11 00	1 13 19	4 00	1 14 38
		11 30	1 13 27	4 05	1 14 52
		12 25	1 12 36	4 20	1 16 46
				4 25	1 16 29
				4 30	1 16 55
				4 35	1 17 16

AUGUST 6, 1840.

M. T., Gött.	Declination.																	
	Noon.			13 hours.			14 hours.			15 hours.			16 hours.			17 hours.		
m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
00	1	12	20	1	10	26	1	10	23	1	14	42	1	17	04	1	19	59
10	1	12	18	1	10	07	1	10	23	1	14	47	1	18	29	1	20	19
20	1	12	04	1	10	07	1	10	42	1	15	47	1	18	43	1	20	54
30	1	11	23	1	09	51	1	10	37	1	14	51	1	18	57	1	21	04
40	1	10	41	1	10	22	1	10	59	1	14	51	1	19	21	1	21	29
50	1	10	04	1	10	22	1	12	22	1	16	29	1	19	32	1	21	49
	18 hours.			19 hours.			20 hours.			21 hours.			22 hours.			23 hours.		
00	1	22	04	1	21	09	1	19	33	1	19	39	1	19	41	1	18	16
10	1	22	19	1	21	06	1	19	26	1	19	43	1	19	19	1	17	52
20	1	22	29	1	20	53	1	19	26	1	19	49	1	19	09	1	17	41
30	1	21	59	1	20	38	1	19	27	1	20	04	1	18	57	1	17	53
40	1	21	16	1	20	18	1	19	37	1	19	54	1	18	56	1	18	21
50	1	21	14	1	19	55	1	19	38	1	19	46	1	18	26	1	18	29

AUGUST 7, 1840.

M. T., Gött.	Declination.																	
	0 hours.			1 A. M.			2 hours.			3 hours.			4 hours.			5 hours.		
00	1	18	14	1	18	16	1	18	18	1	19	26	1	18	37	1	17	36
10	1	18	27	1	18	19	1	18	39	1	19	44	1	18	37	1	17	36
20	1	18	21	1	18	37	1	18	45	1	19	39	1	18	14	1	17	33
30	1	18	21	1	18	29	1	18	59	1	19	19	1	17	58	1	17	33
40	1	18	18	1	17	51	1	19	00	1	19	09	1	17	36	1	17	33
50	1	18	07	1	17	45	1	19	24	1	19	09	1	17	36	1	17	31
	6 hours.			7 hours.			8 hours.			9 hours.			10 hours.			11 hours.		
00	1	17	31	1	17	04	1	16	14	1	16	22	1	15	33	1	14	20
10	1	17	27	1	16	51	1	15	43	1	16	16	1	15	29	1	14	21
20	1	17	23	1	16	27	1	15	39	1	15	52	1	15	13	1	14	09
30	1	17	07	1	16	27	1	16	22	1	15	39	1	15	25	1	13	36
40	1	16	58	1	16	27	1	16	06	1	15	38	1	15	13	1	13	32
50	1	16	58	1	16	19	1	16	24	1	15	33	1	14	52	1	12	59

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

AUGUST 7, 1840—Continued.

M. T., Gött.	Declination.					
	Noon.	13 hours.	14 hours.	15 hours.	16 hours.	17 hours.
m.	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″
00	1 12 15	1 10 41		1 11 29	1 15 29	1 17 54
10	1 12 09	1 10 09		1 12 29	1 16 04	1 19 38
20	1 11 57	1 09 32		1 13 29	1 16 19	1 20 01
30	1 11 26	1 09 24	1 09 59	1 13 29	1 16 29	1 20 31
40	1 11 21	1 09 11	1 10 49	1 14 04	1 17 19	1 21 25
50	1 11 08	1 09 13	1 11 04	1 14 34	1 17 19	1 21 49
	18 hours.	19 hours.	20 hours.	21 hours.	22 hours.	23 hours.
00	1 22 04	1 22 37	1 21 07	1 20 26	1 18 44	1 16 59
10	1 21 29	1 22 24	1 20 59	1 19 58	1 18 29	1 17 19
20	1 21 46	1 21 26	1 20 59	1 19 43	1 17 34	1 16 39
30	1 21 54	1 20 59	1 20 59	1 19 27	1 17 04	1 16 24
40	1 22 29	1 20 51	1 20 51	1 19 16	1 16 29	1 16 19
50	1 22 30	1 20 46	1 20 43	1 18 54	1 16 29	1 15 59

AUGUST 8, 1840.

M. T., Gött.	Declination.						
	0 hours.	1 hours.	2 hours.	3 hours.	4 hours.	5 hours.	
00	1 15 48	1 16 24	1 16 28	1 15 26	1 16 06	1 16 44	
10	1 15 45	1 16 19	1 16 07	1 14 45	1 16 37	1 16 44	
20	1 15 44	1 16 19	1 16 05	1 14 16	1 16 37	1 16 44	
30	1 15 44	1 15 56	1 16 05	1 14 29	1 16 37	1 16 39	
40	1 15 44	1 15 49	1 15 56	1 15 20	1 16 37	1 16 07	
50	1 16 29	1 16 14	1 15 43	1 15 46	1 16 37	1 16 01	
	6 hours.	7 hours.	8 hours.	9 hours.	10 hours.	11 hours.	Noon.
00	1 15 39	1 15 44	1 16 11	1 21 29	1 13 29	1 11 39	1 16 30
10	1 15 37	1 15 59	1 16 00	1 20 39	1 12 44	1 11 59	1 16 09
20	1 15 24	1 16 07	1 15 57	1 18 09	1 12 44	1 12 19	1 16 54
30	1 15 29	1 16 09	1 17 09	1 15 29	1 12 09	1 14 49	1 15 44
40	1 15 44	1 16 13	1 19 29	1 13 47	1 11 49	1 15 39	1 13 04
50	1 15 48	1 16 11	1 20 59	1 13 24	1 11 47	1 16 09	

REMARKS.—The observations on the 6th and 7th August were made on the north end of the needle only.

1840—Continued.

August 20.		August 21.		August 22.			
M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.
h. m.	° ′ ″	h. m.	° ′ ″	h. m.	° ′ ″	h. m.	° ′ ″
5 00	1 07 09	3 45	1 11 59	8 00	1 24 15	9 20	1 14 50
5 30	1 10 27	4 00	1 13 24	8 05	1 24 15	9 25	1 14 15
6 00	1 13 47	4 15	1 15 34	8 10	1 23 30	9 30	1 14 15
6 10	1 14 47	4 45	1 15 34	8 15	1 21 03	9 35	1 14 35
6 15	1 16 14	5 15	1 15 54	8 20	1 19 59	9 40	1 14 10
6 20	1 16 19	6 00	1 15 29	8 25	1 19 27	9 45	1 13 58
6 25	1 16 19			8 30	1 19 01	9 50	1 13 49
6 30	1 16 19			8 35	1 18 04	9 55	1 13 37
7 00	1 16 19			8 40	1 17 15	10 00	1 13 37
8 00	1 14 44			8 45	1 16 46	10 05	1 13 22
9 00	1 15 09			8 50	1 17 06	10 10	1 13 22
				8 55	1 17 15	10 15	1 12 17
				9 00	1 16 47	10 20	1 12 17
				9 05	1 15 54	10 25	1 12 17
				9 10	1 14 59	10 30	
				9 15	1 14 41	10 35	

1840—Continued.

August 23.						During a visible aurora, August 24.			
M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.
h. m.	° ′ ″	h. m.	° ′ ″	h. m.	° ′ ″	h. m.	° ′ ″	h. m.	° ′ ″
2 45	1 06 29	7 15	1 15 19	11 35	1 31 29	2 10	1 01 55	5 15	1 09 55
2 50	1 03 59	7 40	1 30 49	11 44	1 33 44	2 20	1 16 29	5 35	1 10 11
2 52	1 01 49	7 45	1 28 29	11 50	1 33 19	2 25	1 16 41	5 50	1 14 25
2 58	1 01 19	7 50	1 25 59	Noon	1 26 29	2 35	1 16 25	6 00	1 16 51
3 00	1 00 29	7 55	1 23 14	12 05	1 21 29	2 45	1 17 49	6 15	1 21 00
3 05	1 00 39	8 00	1 22 14	12 10	1 19 29	3 00	1 17 49	6 30	1 21 37
3 10	1 01 59	8 10	1 17 59	12 15	1 18 54	3 15	1 15 47	6 45	1 21 37
3 15	1 01 59	8 20	1 17 59	12 20	1 17 19	3 30	1 13 49	7 00	1 21 34
3 20	1 03 19	8 30	1 16 54	12 25	1 17 19	3 40	1 13 29	7 15	1 22 10
3 25	1 04 39	8 54	1 16 04	12 33	1 15 29	3 50	1 15 49	7 30	1 21 15
3 30	1 07 39	9 00	1 15 09	12 46	1 14 59	4 00	1 17 33	11 00	1 22 39
3 40	1 15 15	9 10	1 14 29			4 15	1 15 21	11 15	1 21 39
3 50	1 17 21	9 35	1 14 29			4 30	1 14 29	11 30	1 20 41
						4 45	1 12 09	11 45	1 19 56
						5 00	1 07 34		

1840—Continued.

August 25.						August 26.				
M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.			
							4 hours.	5 hours.	6 hours.	7 hours.
h. m.	° ′ ″	h. m.	° ′ ″	h. m.	° ′ ″	m.	° ′ ″	° ′ ″	° ′ ″	° ′ ″
2 30	1 03 44	3 45	1 12 08	6 40	1 21 01	00		1 24 05	1 14 22	1 17 23
2 35	1 05 27	3 50	1 11 59	6 50	1 20 07	05	1 19 34	1 25 31	1 12 29	
2 40	1 06 21	3 55	1 11 59	7 00	1 20 07	10	1 19 42	1 25 06	1 11 19	1 18 26
2 45	1 06 59	4 00	1 12 17	7 10	1 20 29	15	1 19 24	1 22 35	1 11 05	
2 50	1 07 34	4 20	1 15 52	7 20	1 18 06	20	1 17 26	1 21 26	1 11 14	
2 55	1 06 16	4 35	1 15 33	7 50	1 15 14	25	1 16 17	1 23 29	1 11 25	
3 00	1 06 29	5 40	1 21 16	8 20	1 16 39	30	1 17 15	1 24 09	1 11 25	
3 05	1 06 56	5 55	1 22 53	9 15	1 16 07	35	1 19 00	1 24 51	1 11 25	
3 10	1 08 39	6 00	1 23 47	9 50	1 16 44	40	1 19 39	1 24 56		
3 15	1 11 02	6 10	1 24 44	10 35	1 17 27	45	1 19 39	1 22 31		
3 27	1 07 29	6 20	1 24 55	11 30	1 16 16	50	1 21 15	1 20 27	1 15 03	
3 30	1 07 29	6 30	1 23 55	11 55	1 15 36	55	1 22 40	1 17 32		

1840—Continued.

August 27.

M. T., Gött.	Declination.						
	1 hour.	2 hours.	3 hours.	5 hours.	6 hours.	7 hours.	8 hours.
m.	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″
00		1 06 05	1 14 41		1 21 56		1 23 06
05		1 08 18	1 15 19		1 21 08		1 23 08
10		1 11 07	1 16 35		1 20 44		1 21 45
15		1 10 20	1 17 20		1 18 56		1 21 24
20		1 05 46			1 18 39		1 20 33
25		1 04 03			1 17 43		1 19 52
30		1 04 59		1 21 45	1 17 25	1 20 09	1 19 15
35		1 08 17		1 21 37		1 22 04	
40		1 11 08		1 21 27		1 22 45	
45	1 08 00	1 13 20		1 21 27		1 23 47	
50	1 03 55	1 14 40		1 21 56		1 23 29	
55	1 02 56	1 15 00		1 22 08		1 24 04	

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1840—Continued.

	August 27—continued.				August 28.		
M. T., Gött.	Declination.			M. T., Gött.	Declination.		
	9 hours.	10 hours.	11 hours.		1 hour.	2 hours.	3 hours.
m.	° ′ ″	° ′ ″	° ′ ″	m.	° ′ ″	° ′ ″	° ′ ″
00	1 18 20	1 26 29	1 17 56	00		1 12 34	1 14 39
05	1 18 15	1 25 27		05		1 13 04	1 15 48
10	1 18 55	1 24 17		10		1 11 44	
15	1 20 18	1 24 01		15		1 10 20	
20	1 20 18	1 23 60		20		1 07 45	
25	1 20 36	1 22 09		25		1 07 37	
30	1 22 04	1 21 39	1 14 43	30		1 08 29	
35	1 22 44			35	1 15 24	1 09 46	
40	1 23 36			40	1 14 19	1 11 49	
45	1 24 31	1 20 04		45	1 13 35	1 12 54	
50	1 25 39			50	1 10 47	1 13 37	
55	1 26 27			55	1 11 08	1 14 52	

1840—Continued.

During the aurora, August 29.

M. T., Gött.	Declination.						
	1 hour.	2 hours.	3 hours.	4 hours.	5 hours.	6 hours.	7 hours.
m.	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″
00	1 22 29	1 17 33	0 49 14	1 04 13		1 16 17	1 10 52
05			0 54 04	1 06 09			
10			0 52 47	1 10 04			
15		1 06 24	0 52 11	1 12 22			
20		0 55 04	0 53 29	1 17 27			
25		0 46 57	0 56 29	1 17 29			
30	1 18 31	0 36 29	1 00 17	1 12 23		1 08 41	1 03 29
35		0 31 04	1 08 25	1 10 52	1 20 45		
40		0 33 39	1 11 38	1 14 48			
45	1 18 27		1 08 26	1 15 25			
50		0 41 22	1 04 01				
55		0 47 25	1 04 03				

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1840—Continued.

During the aurora, September 22.

M. T., Gött.	Declination.																	
	1 hour.			2 hours.			4 hours.			5 hours.			22 hours.			23 hours.		
m.	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″	°	′	″
00				1	02	09				1	32	03				1	17	17
05	1	17	23	1	05	33				1	32	51				1	18	49
10	1	18	29	1	11	31				1	30	22				1	19	39
15	1	17	29	1	12	26	1	18	24	1	26	22	1	07	41	1	19	39
20	1	14	04	1	13	14	1	17	54	1	19	17						
25	1	06	08	1	12	58	1	18	44	1	20	02	1	08	54			
30	1	08	11	1	13	22	1	17	26	1	20	17	1	10	24			
35	1	11	54	1	15	47	1	18	28	1	23	34	1	13	12			
40	1	09	01				1	20	22	1	25	20	1	13	24			
45	1	04	38				1	27	42	1	22	10	1	12	09			
50	1	02	29				1	29	22				1	14	39			
55	1	01	19				1	30	55				1	15	34			

1840—Continued.

September 25.							October 21.							During an aurora, October 28.						
M. T., Gött.	Declination.						M. T., Gött.	Declination.						M. T., Gött.	Declination.					
	2 hours.			3 hours.				2 hours.			3 hours.				4 hours.			22 hours.		
m.	°	′	″	°	′	″	m.	°	′	″	°	′	″	m.	°	′	″	°	′	″
00	1	05	25	1	16	29	00				1	11	24	00						
05	1	02	54				05	1	09	41	1	12	04	05				1	25	53
10	1	04	29				10	1	12	52	1	13	32	10	1	12	39	1	25	58
15	1	05	24				15	1	16	50				15	1	15	17	1	24	49
20	1	06	59				20	1	19	01				20	1	19	11	1	21	51
25	1	07	49				25	1	20	07				25	1	19	35	1	20	42
30	1	08	54				30	1	20	37				30	1	16	50	1	19	18
35	1	12	34				35	1	19	38				35	1	13	55	1	18	18
40	1	14	09				40	1	19	37				40	1	12	52	1	17	33
45	1	15	15				45	1	17	50				45	1	11	48	1	17	18
50	1	16	34				50	1	14	26				50	1	11	18			
55	1	16	29				55	1	12	13				55	1	13	39			

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1840—1841.

October 30.		During an aurora, January 26, 1841.			
M. T., Gött.	Declination. 8 hours.	M. T., Gött.	Declination.	M. T., Gött.	Declination.
m.	° ′ ″	*h. m. s.*	° ′ ″	*h. m. s.*	° ′ ″
00		4 00 00	1 05 23	5 20 00	1 16 25
05		4 05 00	1 03 41	5 25 00	1 17 45
10	1 28 25	4 10 00	1 02 03	5 30 00	1 17 06
15	1 27 58	4 15 00	1 01 19	5 35 00	1 15 29
20	1 27 10	4 20 00	1 01 48	5 40 00	1 13 46
25	1 25 25	4 25 00	1 02 09	5 45 00	1 12 09
30	1 24 04	4 30 00	1 01 59	5 50 00	1 11 21
35	1 24 04	4 35 00	1 03 10	5 55 00	1 11 47
40	1 24 04	4 40 00	1 03 47	6 00 00	1 12 41
45	1 24 04	4 45 00	1 05 27	6 05 00	1 14 07
50		4 50 00	1 06 47	6 10 00	1 15 26
55		4 55 00	1 09 50	6 15 00	1 16 48
		5 00 00	1 12 19	6 20 00	1 17 28
		5 05 00	1 13 08	6 25 00	1 17 12
		5 10 00	1 14 19	6 30 00	1 17 16
		5 15 00	1 15 51		

1841—Continued.

February 27.

M. T., Gött.	Declination.				
	10 hours.	11 hours.	Noon.	13 hours.	14 hours.
m.	° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″
00		1 13 14	1 14 24	1 29 54	1 29 59
05		1 12 54	1 15 31	1 29 54	1 29 48
10	1 03 57	1 12 54	1 18 24	1 29 26	1 29 15
15	1 05 32	1 11 09	1 19 36	1 31 44	1 29 15
20	1 06 17	1 10 52	1 21 32	1 31 25	1 28 31
25	1 09 28	1 11 06	1 23 04	1 32 42	1 28 31
30	1 08 56	1 11 20	1 24 55	1 32 42	
35	1 07 58	1 11 04	1 25 48	1 31 43	
40	1 08 16	1 09 36	1 27 01	1 31 39	
45	1 09 07	1 09 36	1 25 50	1 31 09	
50	1 11 22	1 11 09	1 25 50	1 30 17	
55	1 14 54	1 11 52	1 28 21	1 30 17	

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1841—Continued.

During an aurora, February 23.

M. T., Gött.	Declination.		
	0 hours.	1 hours.	2 hours.
m.	° ′ ″	° ′ ″	° ′ ″
00		1 25 19	1 18 54
05		1 21 21	1 18 05
10		1 21 13	1 18 05
15		1 20 33	1 17 49
20		1 20 22	
25		1 20 11	
30	1 28 24	1 19 45	
35	1 28 45	1 19 45	
40	1 28 27	1 19 45	
45	1 27 24	1 19 38	
50	1 27 24	1 19 17	
55	1 25 27	1 19 01	

During an aurora, July 20.

M. T., Gött.	Declination.	M. T., Gött.	Declination.
h. m. s.	° ′ ″	h. m. s.	° ′ ″
3 32 05	0 46 34	3 55 05	1 00 16
3 37 05	0 39 51	3 56 05	1 01 44
3 42 05	0 38 50	3 57 05	1 03 14
3 47 05	0 44 39	3 58 05	1 06 51
3 48 05	0 46 19	3 59 05	1 08 05
3 49 05	0 48 49	4 00 05	1 10 18
3 50 05	0 50 40	4 01 05	1 11 06
3 51 05	0 52 21	4 02 05	1 11 22
3 52 05	0 54 35	4 03 05	1 11 32
3 53 05	0 56 01	4 04 05	1 11 32
3 54 05	0 58 08		

1841—Continued.

During an aurora, August 7.

M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.
h. m. s.	° ′ ″	h. m. s.	° ′ ″	h. m. s.	° ′ ″	h. m. s.	° ′ ″
1 57 22	0 57 29	2 27 22	1 24 26	2 49 22	1 12 01	3 11 22	1 34 51
2 00 22	1 05 57	2 28 22	1 24 27	2 50 22	1 10 42	3 12 22	1 34 34
2 03 22	1 11 41	2 29 22	1 24 37	2 51 22	1 10 23	3 13 22	1 33 40
2 05 22	1 16 39	2 30 22	1 24 38	2 52 22	1 09 19	3 14 22	1 31 56
2 06 22	1 18 04	2 31 22	1 24 38	2 53 22	1 08 30	3 15 22	1 30 18
2 07 22	1 19 11	2 32 22	1 24 13	2 54 22	1 08 16	3 16 22	1 28 29
2 08 22	1 19 51	2 33 22	1 23 13	2 55 22	1 06 47	3 17 22	1 26 57
2 09 22	1 19 51	2 34 22	1 21 13	2 56 22	1 06 07	3 18 22	1 25 31
2 10 22	1 19 34	2 35 22	1 19 30	2 57 22	1 06 34	3 19 22	1 24 36
2 11 22	1 19 12	2 36 22	1 18 24	2 58 22	1 07 15	3 20 22	1 23 59
2 12 22	1 19 12	2 37 22	1 18 03	2 59 22	1 07 54	3 21 22	1 23 28
2 13 22	1 19 17	2 38 22	1 17 24	3 00 22	1 09 19	3 22 22	1 22 58
2 14 22	1 19 34	2 39 22	1 16 18	3 01 22	1 10 56	3 23 22	1 22 58
2 15 22	1 19 45	2 40 22	1 14 42	3 02 22	1 12 02	3 24 22	1 22 58
2 17 22	1 21 39	2 41 22	1 14 24	3 03 22	1 13 49	3 25 22	1 22 58
2 20 22	1 24 34	2 42 22	1 13 04	3 04 22	1 17 39	3 26 22	1 22 49
2 21 22	1 25 46	2 43 22	1 13 42	3 05 22	1 19 49	3 27 22	1 22 49
2 22 22	1 26 09	2 44 22	1 13 39	3 06 22	1 23 04	3 28 22	1 21 59
2 23 22	1 26 20	2 45 22	1 13 39	3 07 22	1 26 53	3 29 22	1 21 19
2 24 22		2 46 22	1 13 29	3 08 22	1 29 46	3 30 22	1 20 48
2 25 22	1 24 56	2 47 22	1 12 32	3 09 22	1 32 31		
2 26 22	1 24 31	2 48 22	1 12 49	3 10 22	1 33 56		

EXTRAORDINARY OBSERVATIONS AT WASHINGTON.

1841—1842.

August 27.						During an aurora, January 16, 1842	
M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.
h. m. s.	° ′ ″	h. m. s.	° ′ ″	h. m. s.	° ′ ″	h. m.	° ′ ″
4 10 00	1 00 09	4 37 00	1 09 28	4 51 00	1 17 36	2 30	1 21 55
4 13 00	0 59 04	4 38 00	1 11 09	4 52 00	1 17 35	2 31	1 21 59
4 15 00	0 58 05	4 39 00	1 12 02	4 53 00	1 17 30	2 35	1 22 14
4 17 00	0 57 38	4 40 00	1 13 01	4 54 00	1 17 23	2 40	1 22 31
4 19 00	0 57 34	4 41 00	1 14 35	4 55 00	1 17 17	2 45	1 22 55
4 21 00	0 58 30	4 42 00	1 15 36	4 56 00	1 17 25	2 50	1 23 27
4 23 00	0 59 07	4 43 00	1 16 24	4 57 00	1 17 35	2 55	1 23 51
4 25 00	0 59 55	4 44 00	1 17 04	4 58 00	1 17 35	3 00	1 24 05
4 27 00	1 01 13	4 45 00	1 17 39	4 59 00	1 17 32	3 05	1 24 13
4 29 00	1 02 01	4 46 00	1 17 56	5 00 00	1 17 32	3 10	1 24 37
4 31 00	1 03 48	4 47 00	1 18 15	5 01 00	1 17 35	3 15	1 25 17
4 33 00	1 05 27	4 48 00	1 18 18	5 02 00	1 17 35	3 20	1 26 21
4 34 00	1 06 21	4 49 00	1 18 19	5 03 00	1 17 35	3 25	1 26 55
4 35 00	1 07 38	4 50 00	1 17 53	5 04 00	1 17 35	*	
4 36 00	1 08 37						

1842—Continued.

During an aurora, February 7.

M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.	M. T., Gött.	Declination.
h. m. s.	° ′ ″	h. m. s.	° ′ ″	h. m. s.	° ′ ″	h. m. s.	° ′ ″
2 59 33	1 10 34	3 17 33	0 59 36	3 32 33	1 17 01	3 47 33	1 18 59
3 03 33	1 05 41	3 18 33	1 00 59	3 33 33	1 17 41	3 48 33	1 19 58
3 04 33	1 03 31	3 19 33	1 02 19	3 34 33	1 18 23	3 49 33	1 20 07
3 05 33	1 02 51	3 20 33	1 03 58	3 35 33	1 18 51	3 50 33	1 20 36
3 06 33	1 00 36	3 21 33	1 05 11	3 36 33	1 18 56	3 51 33	1 21 18
3 07 33	0 59 37	3 22 33	1 06 30	3 37 33	1 18 59	3 52 33	1 21 56
3 08 33	0 58 20	3 23 33	1 07 56	3 38 33	1 18 55	3 53 33	1 22 37
3 09 33	0 57 40	3 24 33	1 09 02	3 39 33	1 18 49	3 54 33	1 23 12
3 10 33	0 56 31	3 25 33	1 10 25	3 40 33	1 18 41	3 55 33	1 23 58
3 11 33	0 56 34	3 26 33	1 11 15	3 41 33	1 18 24	3 56 33	1 24 24
3 12 33	0 54 13	3 27 33	1 12 16	3 42 33	1 18 17	3 57 33	1 24 54
3 13 33	0 54 13	3 28 33	1 13 01	3 43 33	1 17 56	3 58 33	1 25 13
3 14 33	0 57 06	3 29 33	1 13 58	3 44 33	1 18 19	3 59 33	1 25 38
3 15 33	0 57 39	3 30 33	1 14 58	3 45 33	1 18 28	4 00 00	1 25 41
3 16 33	0 58 36	3 31 33	1 16 03	3 46 33	1 18 37		

* Observation interrupted by excessive vibration of the magnet.

1842—Continued.

During an aurora, April 15.

M. T., Gött.		Declination.			M. T., Gött.		Declination.			M. T., Gött.		Declination.		
h.	m.	°	′	″	h.	m.	°	′	″	h.	m.	°	′	″
4	44	1	14	22	5	43	1	59	10	7	37	1	11	07
4	53	1	33	15	5	47	1	56	39	7	42	1	17	28
4	55	1	37	33	6	18	1	18	35	7	46	1	19	20
4	57	1	41	25	6	22	1	17	19	8	16	1	17	44
5	01	1	44	01	6	24	1	16	39	8	20	1	18	29
5	03	1	42	06	6	27	1	17	28	8	24	1	19	33
5	05				6	29	1	18	07	8	28	1	20	06
5	07	1	34	18	6	33	1	18	53	9	02	1	22	20
5	09	1	30	53	6	37	1	19	10	9	32	1	18	25
5	11	1	28	32	6	39	1	18	34	9	34	1	17	41
5	13	1	28	52	6	43	1	19	22	9	38	1	18	29
5	15				6	47	Vibrating			9	42	1	18	21
5	17	1	33	55	6	49	Do			9	46	1	18	30
5	19	1	36	55	6	52	1	38	42	11	05	1	32	08
5	21	1	39	36	6	54	Vibrating			11	07	1	32	29
5	23	1	40	15	6	56	Do			11	09	1	32	56
5	27	1	41	14	7	00	Do			11	13	1	34	12
5	29	1	42	30	7	23	1	28	52	11	17	1	34	33
5	33	1	49	33	7	29	1	18	40	11	23	1	32	38
5	37	1	56	17	7	32	1	14	06					
5	39	1	57	59	7	34	1	11	55					

1842—Continued.

April 21.

M. T., Gött.			Declination.			M. T., Gött.			Declination.			M. T., Gött.			Declination.		
h.	m.	s.	°	′	″	h.	m.	s.	°	′	″	h.	m.	s.	°	′	″
3	39	30	1	24	41	3	44	30	1	26	21	3	50	00	1	29	32
3	40	00	1	24	52	3	45	00	1	26	31	3	50	30	1	29	32
3	40	30	1	25	10	3	45	30	1	26	49	3	51	00	1	29	51
3	41	00	1	25	21	3	46	00	1	27	27	3	51	30	1	29	40
3	41	30	1	25	26	3	46	30	1	27	41	3	52	00	1	29	33
3	42	00	1	25	35	3	47	00	1	27	55	3	52	30	1	29	25
3	42	30	1	25	44	3	48	00	1	28	53	3	53	00	1	29	25
3	43	00	1	25	53	3	48	30	1	29	14	3	53	30	1	29	32
3	43	30	1	26	08	3	49	00	1	29	20	3	54	00	1	29	25
3	44	00	1	26	10	3	49	30	1	29	21	3	54	30	1	29	12

1842—Continued.

April 21—Continued.

M. T., Gött.			Declination.			M. T., Gött.			Declination.			M. T., Gött.			Declination.		
h.	m.	s.	°	′	″	h.	m.	s.	°	′	″	h.	m.	s.	°	′	″
3	55	00	1	29	03	4	12	30	1	20	57	4	25	30	1	09	07
3	55	30	1	29	03	4	13	00	1	20	49	4	26	00	1	09	03
3	56	00	1	28	52	4	13	30	1	19	13	4	26	30	1	08	52
3	56	30	1	28	44	4	14	00	1	18	27	4	27	00	1	08	49
3	57	00	1	28	30	4	14	30	1	17	27	4	28	30	1	08	48
3	58	00	1	28	32	4	15	00	1	16	57	4	29	00	1	08	48
3	58	30	1	28	29	4	15	30	1	16	06	4	29	30	1	09	15
3	59	00	1	28	11	4	16	00	1	15	34	4	30	00	1	09	14
3	59	30	1	28	04	4	16	30	1	14	57	4	30	30	1	09	23
4	00	00	1	27	53	4	17	00	1	14	23	4	31	00	1	09	25
4	04	00	1	26	09	4	18	00	1	13	02	4	31	30	1	09	49
4	04	30	1	26	00	4	18	30	1	12	37	4	32	00	1	10	02
4	05	00	1	25	42	4	19	00	1	12	02	4	33	00	1	10	39
4	05	30	1	25	23	4	19	30	1	11	37	4	33	30	1	10	52
4	06	00	1	25	12	4	20	00	1	11	14	4	34	00	1	11	13
4	06	30	1	25	09	4	20	30	1	11	02	4	34	30	1	11	31
4	07	00	1	25	07	4	21	00	1	10	50	4	35	00	1	11	47
4	08	30	1	24	31	4	21	30	1	10	29	4	35	30	1	12	04
4	09	00	1	24	21	4	22	00	1	10	12	4	36	00	1	12	25
4	09	30	1	23	39	4	22	30	1	09	59	4	36	30	1	12	42
4	10	00	1	23	16	4	23	00	1	09	48	4	37	00	1	13	12
4	10	30	1	22	54	4	23	30	1	09	36	4	38	30	1	14	05
4	11	00	1	22	23	4	24	00	1	09	21	4	39	00	1	14	11
4	11	30	1	21	45	4	24	30	1	09	22	4	39	30	1	14	33
4	12	00	1	21	13	4	25	00	1	09	12	4	40	00	1	14	50

1842—Continued.

June 23.

M. T., Gött.			Declination.			M. T., Gött.			Declination.			M. T., Gött.			Declination.		
h.	m.	s.	°	′	″	h.	m.	s.	°	′	″	h.	m.	s.	°	′	″
0	46	40	1	25	23	3	06	25	1	12	02	3	18	25	1	14	31
0	51	40	1	24	36	3	06	55	1	12	11	3	19	25	1	14	50
2	41	00	1	23	38	3	08	25	1	12	28	3	20	55	1	15	28
2	42	20	1	21	55	3	08	55	1	12	36	3	21	55	1	15	23
2	43	50	1	21	00	3	09	25	1	12	20	3	51	30	1	22	09
2	48	40	1	15	52	3	10	25	1	12	36	3	52	56	1	22	54
2	51	35	1	13	13	3	10	55	1	12	41	6	13	00	1	21	08
3	00	55	1	12	28	3	11	25	1	12	33	6	16	50	1	21	58
3	01	55	1	12	38	3	11	55	1	12	43	8	41	00	1	28	17
3	02	25	1	12	35	3	12	25	1	12	51	8	42	27	1	29	24
3	02	55	1	12	36	3	12	55	1	13	07	8	44	00	1	30	44
3	03	25	1	12	10	3	13	25	1	13	18	8	45	00	1	31	15
3	03	55	1	12	00	3	13	55	1	13	18	8	48	45	1	33	15
3	04	25	1	11	52	3	14	25	1	13	33	8	50	00	1	33	33
3	05	25	1	11	53	3	15	25	1	13	49						
3	05	55	1	11	57	3	16	55	1	13	52						

BI-HOURLY MEANS

OF THE

DECLINATION AT WASHINGTON,

FOR EACH MONTH,

FROM JULY, 1840, TO JUNE, 1842.

BI-HOURLY MEANS OF THE DECLINATION AT WASHINGTON—1840.

M. T., Gött.	Declination.	Barometer.	Thermometers.		
			Attached.	Air.	Observatory.
JULY, 1840.					
h. *m.*	° ′ ″	*Inches.*	°	°	°
0 00	1 19 26.3	30.071			84.2
2 00	1 18 28.0	30.087			80.3
4 00	1 17 12.6	30.077			77.4
6 00	1 17 01.9	30.080			74.3
8 00	1 16 14.8	30.078			72.9
10 00	1 16 05.4	30.074			72.2
Noon	1 14 32.8	30.083			72.2
14 00	1 13 44.7	30.090			76.8
16 00	1 17 12.2	30.118			82.2
18 00	1 21 22.9	30.115			84.8
20 00	1 23 14.2	30.098			86.5
22 00	1 21 27.3	30.080			85.9
AUGUST, 1840.					
0 00	1 17 47.3	30.031			81.8
2 00	1 16 00.3	30.039			78.2
4 00	1 15 57.3	30.045			76.2
6 00	1 17 05.1	30.043			74.7
8 00	1 17 23.8	30.041			73.9
10 00	1 16 17.2	30.043			72.3
Noon	1 14 08.9	30.050			72.3
14 00	1 12 17.1	30.071			76.3
16 00	1 18 30.8	30.071			81.3
18 00	1 22 59.5	30.058			83.7
20 00	1 22 50.7	30.045			84.7
22 00	1 20 03.7	30.024			84.5
SEPTEMBER, 1840.					
0 00	1 20 04.3	30.089			71.6
2 00	1 18 23.3	30.102			65.8
4 00	1 19 17.9	30.110			64.9
6 00	1 19 03.4	30.115			62.2
8 00	1 17 51.6	30.109			60.4
10 00	1 18 10.1	30.110			59.0
Noon.	1 16 02.4	30.122			57.1
14 00	1 15 09.2	30.134			62.1
16 00	1 20 17.6	30.139			70.0
18 00	1 24 56.4	30.116			72.7
20 00	1 23 48.5	30.094			74.3
22 00	1 20 32.2	30.087			74.4

BI-HOURLY MEANS OF THE DECLINATION AT WASHINGTON—1840.

M. T., Gött.	Declination.	Barometer.	Thermometers.		
			Attached.	Air.	Observatory.
OCTOBER, 1840.					
h. m.	° ′ ″	*Inches.*	°	°	°
0 00	1 19 36.5	30.063			63.0
2 00	1 18 59.4	30.073			56.8
4 00	1 17 11.3	30.087			54.6
6 00	1 18 14.5	30.087			54.5
8 00	1 19 14.6	30.081			52.5
10 00	1 18 25.1	30.080			51.5
Noon	1 18 10.1	30.092			52.0
14 00	1 16 40.1	30.104			53.6
16 00	1 18 50.4	30.101			59.9
18 00	1 22 35.1	30.077			65.4
20 00	1 22 53.1	30.051			67.6
22 00	1 21 39.0	30.059			66.5
NOVEMBER, 1840.					
0 00	1 20 47.5	29.977			48.93
2 00	1 19 54.7	29.975			46.36
4 00	1 19 56.3	29.979			44.23
6 00	1 20 27.6	29.976			42.83
8 00	1 20 37.8	29.970			41.83
10 00	1 19 35.7	29.978			40.53
Noon	1 19 33.7	29.993			39.83
14 00	1 18 48.8	30.009			44.00
16 00	1 21 00.6	30.015			45.53
18 00	1 23 45.7	29.977			50.00
20 00	1 24 05.5	29.954			52.55
22 00	1 22 29.0	29.971			52.00
DECEMBER, 1840.					
0 00	1 22 07.9	30.024			36.00
2 00	1 19 59.1	30.027			33.74
4 00	1 19 47.2	30.036			32.16
6 00	1 20 04.4	30.027			30.99
8 00	1 21 04.2	30.030			30.19
10 00	1 20 38.5	30.032			29.19
Noon	1 22 50.0	30.039			28.67
14 00	1 21 00.8	30.048			30.64
16 00	1 20 30.9	30.072			32.60
18 00	1 23 38.0	30.037			36.36
20 00	1 24 58.4	30.016			39.51
22 00	1 23 55.5	30.041			39.12

BI-HOURLY MEANS OF THE DECLINATION AT WASHINGTON—1841.

M. T., Gött.	Declination.			Barometer.	Thermometers.		
					Attached.	Air.	Observatory.
h. m.	°	′	″	Inches.	°	°	°
JANUARY, 1841.							
0 00	1	21	53.4	30.059	40.3	34.22	37.70
2 00	1	19	46.7	30.080		34.07	39.30
4 00	1	19	09.9	30.093		32,88	34.41
6 00	1	19	28.4	30.100	40.7	30.39	36.64
8 00	1	20	11.7	30.084		30.83	33.03
10 00	1	20	22.0	30.082		30.60	33.40
Noon	1	20	45.1	30.089	39.2	29.33	32.38
14 00	1	20	08.8	30.102		31.55	34.10
16 00	1	18	19.5	30.110		34.42	34.06
18 00	1	22	02.6	30.053	41.3	35,85	39.98
20 00	1	24	10.4	30.028		38.50	39.45
22 00	1	23	15.7	39.014		37,55	43.03
FEBRUARY, 1841.							
0 00	1	21	36.1	29.892	41.5	34.06	38.30
2 00	1	19	25.5	29.902		30.69	35.50
4 00	1	18	50.6	29.909		29,44	33.30
6 00	1	18	52.8	29.905	41.0	28.71	31.98
8 00	1	19	20.3	29.894		27.13	31.04
10 00	1	18	49.9	29.898		26.92	30.60
Noon	1	18	28.7	29.902	40.1	26,40	30.54
14 00	1	19	01.6	29.907		28.00	32.30
16 00	1	17	49.8	29.920		33,40	35.91
18 00	1	21	40.5	29.893	41.8	37.05	39.74
20 00	1	23	41.6	29.856		39,10	41.92
22 00	1	22	36.1	29.858		38.40	42.09
MARCH, 1841.							
0 00	1	21	37.4	29.855	51.38	45,54	49.87
2 00	1	20	28.8	29.874		42.37	46.74
4 00	1	19	48.8	29.896		39,97	43.98
6 00	1	20	12.5	29.884	51.37	37,97	42.10
8 00	1	20	19.0	29.890		36,33	40.03
10 00	1	18	57.8	29.898		35.16	38.74
Noon	1	18	06.8	29.905	49.35	35,35	38.03
14 00	1	17	03.1	29.921		38.10	42.29
16 00	1	19	43.2	29.924		45,38	45.90
18 00	1	24	07.3	29.901	50.56	47.47	49.04
20 00	1	25	13.2	29.865		49.68	51.65
22 00	1	23	51.1	29.854		48,96	51.54

BI-HOURLY MEANS OF THE DECLINATION AT WASHINGTON—1841.

APRIL, 1841.

M. T., Gött.		Declination.			Barometer.	Thermometers.		
						Attached.	Air.	Observatory.
h.	*m.*	°	′	″	*Inches.*	°	°	°
0	00	1	22	01.1	29.878	58.46	53.46	55.80
2	00	1	20	32.6	29.891		48.76	53.06
4	00	1	19	31.6	29.893		44.94	49.06
6	00	1	19	52.3	29.882	57.70	44.53	48.76
8	00	1	19	15.1	29.869		43.75	47.30
10	00	1	18	40 8	29.871		43.14	46.48
Noon		1	17	57.2	29.894	55.96	43.66	46.53
14	00	1	17	33.6	29.908		46.86	49 96
16	00	1	20	00.7	29.913		50.00	52.73
18	00	1	24	41.2	29.889	56.90	53.56	54.70
20	00	1	26	33.3	29.852		55.11	56.53
22	00	1	24	40.2	29.834		56.23	57.43

MAY, 1841.

M. T., Gött.		Declination.			Barometer.	Attached.	Air.	Observatory.
0	00	1	21	58.7	29.832	65.13	63.64	66.23
2	00	1	20	52.8	29.858		58.80	62.16
4	00	1	20	40.8	29.886		55.55	59.03
6	00	1	20	43.7	29.874	63.74	54.69	57.03
8	00	1	20	30.1	29 866		52.22	55.49
10	00	1	20	11.7	29 871		51.00	53.88
Noon		1	17	48.8	29.884	62.64	55.33	55.93
14	00	1	17	34.0	29.896		59.00	61.22
16	00	1	21	12.3	29.899		62.56	64.83
18	00	1	25	00.1	29.888	64.13	65.39	68.25
20	00	1	26	11.0	29.862		67.12	69.25
22	00	1	24	16.5	29.836		66.91	69.03

JUNE, 1841.

M. T., Gött.		Declination.			Barometer.	Attached.	Air.	Observatory.
0	00	1	21	44.6	29.841	80.73	80.03	81.76
2	00	1	21	44.7	29.849	78.93	73.96	77.36
4	00	1	20	51.4	29.864	77.50	70.00	73.53
6	00	1	20	57.5	29.856	76.36	68.06	70.80
8	00	1	21	00.5	29.848	75.76	67.36	69.43
10	00	1	19	58.8	29.851	75.40	66 00	68 50
Noon		1	17	01.0	29.866	74.66	70.48	70.60
14	00	1	16	17.3	29.890	75.46	75.76	79.60
16	00	1	21	46.2	29.894	77.01	78.26	80.99
18	00	1	25	50.0	29.882	78.93	81.12	83.13
20	00	1	26	12.9	29.859	80.30	83.56	84.73
22	00	1	24	18.1	29.835	81.13	84.03	85.10

BI-HOULRY MEANS OF THE DECLINATION AT WASHINGTON—1841.

M. T., Gött.	Declination.	Barometer.	Thermometers.		
			Attached.	Air.	Observatory.
		JULY, 1841.			
h. *m.*	° ′ ″	*Inches.*	°	°	°
0 00	1 23 35.8	29.894	80.16	81.33	82.83
2 00	1 22 13.1	29.908	79.90	74.93	78.51
4 00	1 21 22.9	29.922	78.12	71.56	74.47
6 00	1 21 42.1	29.919	77.29	68.78	72.37
8 00	1 22 05.5	29.905	76.38	68.09	70.90
10 00	1 21 25.8	29.910	76.00	66.78	69.68
Noon	1 18 56.9	29.927	75.44	70.64	71.00
14 00	1 17 47.4	29.945	75.72	75.19	76.47
16 00	1 21 34.8	29.954	77.12	78.38	81.46
18 00	1 26 59.3	29.935	78.50	81.13	83.38
20 00	1 28 02.5	29.917	80.23	81.53	85.00
22 00	1 26 01.6	29.896	81.29	84.60	85 43
		AUGUST, 1841.			
0 00	1 23 35.4	30.025	77.06	75.93	79.22
2 00	1 21 25.2	30.037	75.38	71.48	75.80
4 00	1 20 31.6	30.050	74.21	68.00	73.32
6 00	1 21 14.8	30.043	74.54	66.82	71.29
8 00	1 21 16.0	30.036	72.62	65.12	69.29
10 00	1 21 09.8	30.037	72.84	64.17	68.68
Noon	1 17 56.1	30.053	72.15	65.69	68.49
14 00	1 17 04.9	30.072	71.10	65.73	72.35
16 00	1 22 38.4	30.087	74.95	76.09	76.99
18 00	1 28 14.9	30.068	76.82	78.70	79.61
20 00	1 28 08.8	30.041	77.37	80.73	81.69
22 00	1 25 12.7	30.038	77.94	80.09	81.50
		SEPTEMBER, 1841.			
0 00	1 23 39.0	30.017	74.90	72.30	77.13
2 00	1 21 47.9	30.019	73.66	68.59	74.56
4 00	1 22 16.2	30.031	72.46	64.90	71.96
6 00	1 21 25.1	30.027	72.19	62.70	69.96
8 00	1 22 44.9	30.016	72.00	61.90	68.63
10 00	1 21 32.4	30.026	71.69	61.00	66.93
Noon	1 20 31.0	30.046	71 .66	61.29	66.20
14 00	1 19 39.6	30.061	71.30	65.73	67.56
16 00	1 23 05.1	30.074	72.40	71.02	70.70
18 00	1 27 23.4	30.049	73.52	74 66	74.53
20 00	1 27 54.3	30.023	74.60	76.50	76.53
22 00	1 25 08.3	30.018	72.20	76.30	77.63

BI-HOURLY MEANS OF THE DECLINATION AT WASHINGTON—1841.

OCTOBER, 1841.

M. T., Gött.		Declination.			Barometer.	Thermometers.		
						Attached.	Air.	Observatory.
h.	m.	°	′	″	Inches.	°	°	°
0	00	1	23	38.1	30.103	61.47	52.94	56.67
2	00	1	22	07.9	30.109	61.20	48.40	54.51
4	00	1	22	15.9	30.116	61.50	46.60	52.45
6	00	1	22	52.9	30.124	61.80	44.90	50.67
8	00	1	22	41.3	30.124	61.57	43.70	49.33
10	00	1	22	54.6	30.128	61.50	42.30	48.48
Noon		1	22	49.6	30.139	60.80	41.70	47.09
14	00	1	21	37.6	30.158	60.60	45.00	48.03
16	00	1	22	57.5	30.164	59.60	51.61	50.28
18	00	1	27	00.8	30.137	60.70	55.30	53.96
20	00	1	27	03.8	30.120	61.00	57.00	57.16
22	00	1	25	21.3	30.146	61.30	56.20	57.90

NOVEMBER, 1841.

M. T., Gött.		Declination.			Barometer.	Attached.	Air.	Observatory.
0	00	1	22	27.2	30.023	58.70	47.30	48.50
2	00	1	21	20.3	30.033	58.20	44.20	48.00
4	00	1	21	41.7	30.040	58.60	43.20	46.30
6	00	1	21	51.9	30.034	58.40	41.80	45.06
8	00	1	22	14.1	30.036	58.30	40.70	44.16
10	00	1	22	05.1	30.039	58.00	39.40	43.00
Noon		1	21	53.7	30.050	57.50	38.80	41.70
14	00	1	21	13.6	30.073	56.00	39.50	41.96
16	00	1	22	51.8	30.076	56.20	44.10	43.28
18	00	1	25	39.2	30.036	57.60	48.00	46.48
20	00	1	25	32.4	30.016	58.10	49.20	48.43
22	00	1	24	14.2	30.015	58.50	48.50	49.40

DECEMBER, 1841.

M. T., Gött.		Declination.			Barometer.	Attached.	Air.	Observatory.
0	00	1	22	36.8	30.012	47.00	37.95	39.51
2	00	1	21	06.3	30.030	46.90	36.26	38.46
4	00	1	21	50.3	30.025	46.70	34.70	37.63
6	00	1	22	03.6	30.012	46.10	33.50	36.63
8	00	1	22	53.6	30.002	45.40	33.16	36.30
10	00	1	22	15.7	30.001	44.80	32.20	35.66
Noon		1	22	06.7	30.004	44.45	31.60	35.06
14	00	1	21	55.3	30.027	44.30	31.69	35.00
16	00	1	22	13.0	30.060	45.60	36.00	36.00
18	00	1	25	10.7	30.025	46.10	39.20	38.23
20	00	1	25	42.9	29.998	46.60	41.30	40.36
22	00	1	23	53.3	30.004	48.20	40.60	41.40

BI-HOURLY MEANS OF THE DECLINATION AT WASHINGTON—1842.

M. T., Gött.		Declination.			Barometer.	Thermometers.		
						Attached.	Air.	Observatory.
JANUARY, 1842.								
h.	*m.*	°	′	″	*Inches.*	°	°	°
0	00	1	22	24.2	30.048	48.87	39.14	44.47
2	00	1	21	12.6	30.062	47.05	36.88	40.12
4	00	1	21	27.2	30.057	47.11	35.61	38.56
6	00	1	22	01.0	30.050	46.72	34.36	37.37
8	00	1	22	18.0	30.045	46.16	33.37	36.55
10	00	1	22	14.7	30.052	45.56	32.82	35.63
Noon		1	21	57.7	30.062	44.92	31.74	34.32
14	00	1	20	55.1	30.098	45.00	31.72	34.42
16	00	1	21	29.6	30.107	46.35	39.50	35.90
18	00	1	25	22.7	30.061	47.86	40.71	38.24
20	00	1	25	28.3	30.083	47.74	43.16	41.74
22	00	1	23	54.1	30.027	50.14	42.81	42.74
FEBRUARY, 1842.								
0	00	1	25	08.2	30.010	49.51	42.39	44.89
2	00	1	24	34.9	30.030	49.07	40.07	43.32
4	00	1	23	51.8	30.038	48.48	38.29	41.61
6	00	1	23	38.8	30.042	47.91	36.46	40.45
8	00	1	24	02.1	30.045	47.02	35.32	39.17
10	00	1	23	36.2	30.038	46.59	34.11	38.03
Noon		1	24	00.9	30.024	46.43	33.96	37.36
14	00	1	22	58.8	30.057	46.22	34.89	37.21
16	00	1	23	40.7	30.075	47.59	40.04	38.61
18	00	1	26	14.9	30.051	48.36	43.02	41.89
20	00	1	27	40.7	30.027	48.51	45.93	44.04
22	00	1	26	39.5	30.020	49.00	46.16	43.45
MARCH, 1842.								
0	00	1	26	19.5	30.061	59.59	54.39	56.26
2	00	1	24	43.5	30.103	58.26	50.04	54.10
4	00	1	24	15.5	30.100	58.87	48.77	52.91
6	00	1	24	21.8	30.103	58.82	47.00	51.71
8	00	1	25	08.3	30.095	58.68	46.19	50.66
10	00	1	23	54.0	30.101	57.79	44.97	49.61
Noon		1	23	38.4	30.115	56.87	44.40	48.50
14	00	1	22	23.0	30.134	57.03	46.47	48.18
16	00	1	23	14.8	30.136	57.50	50.74	51.01
18	00	1	28	03.5	30.114	58.59	55.31	53.42
20	00	1	29	28.8	30.076	58.93	57.55	56.26
22	00	1	28	06.3	30.069	59.82	57.70	57.35

BI-HOURLY MEANS OF THE DECLINATION AT WASHINGTON—1842.

APRIL, 1842.

M. T., Gött.	Declination.	Barometer.	Thermometers.		
			Attached.	Air.	Observatory.
h. m.	° ′ ″	Inches.	°	°	°
0 00	1 27 07.1	29.999	63.97	60.97	62.41
2 00	1 26 13.7	30.014	63.11	55.60	60.19
4 00	1 24 43.9	30.026	63.38	53.30	58.48
6 00	1 24 56.2	30.025	63.03	51.30	56.64
8 00	1 23 53.1	30.020	62.78	50.08	55.41
10 00	1 23 13.5	30.024	61.68	49.10	53.95
Noon	1 23 18.0	30.041	61.76	49.32	53.22
14 00	1 22 45.6	30.055	62.05	53.01	53.32
16 00	1 24 40.0	30.067	62.51	58.04	54.35
18 00	1 28 48.3	30.042	63.30	61.80	54.69
20 00	1 30 25.9	30.011	63.53	64.51	61.80
22 00	1 28 35.8	29.985	63.85	64.18	60.55

MAY, 1842.

M. T., Gött.	Declination.	Barometer.	Attached.	Air.	Observatory.
0 00	1 26 09.7	29.978	66.44	68.22	67.33
2 00	1 26 00.4	29.996	65.87	60.87	65.34
4 00	1 25 35.8	30.015	65.77	57.86	63.26
6 00	1 25 08.9	30.021	65.83	55.70	60.77
8 00	1 24 50.1	30.015	65.48	54.47	59.67
10 00	1 24 18.4	30.018	65.10	53.85	58.41
Noon	1 22 04.0	30.033	64.97	55.67	57.51
14 00	1 21 39.7	30.044	65.03	60.45	58.21
16 00	1 26 31.3	30.034	65.77	63.91	61.40
18 00	1 29 46.4	30.013	66.15	67.36	63.99
20 00	1 30 11.0	30.000	66.49	69.84	66.41
22 00	1 27 47.8	29.984	66.91	70.47	67.82

JUNE, 1842.

M. T., Gött.	Declination.	Barometer.	Attached.	Air.	Observatory.
0 00	1 26 47.0	30.028	73.89	73.75	76.31
2 00	1 25 56.5	30.037	73.04	70.62	74.62
4 00	1 25 28.6	30.044	72.90	67.40	72.28
6 00	1 24 59.7	30.050	72.70	65.60	70.57
8 00	1 25 30.1	30.050	72.48	64.73	69.31
10 00	1 24 46.3	30.048	72.29	64.15	71.22
Noon	1 22 06.0	30.064	72.18	66.04	67.31
14 00	1 21 34.0	30.072	72.08	71.50	68.10
16 00	1 25 08.6	30.084	72.28	76.49	71.12
18 00	1 29 07.7	30.069	72.98	77.53	73.65
20 00	1 30 40.8	30.044	73.66	80.14	75.85
22 00	1 29 42.3	29.996	74.22	81.48	76.81

1841–'42.

M. T., Göttingen M. T., Wash'n -	h. m. 0 00 18 12	h. m. 2 00 20 12	h. m. 4 00 22 12	h. m. 6 00 0 12	h. m. 8 00 2 12	h. m. 10 00 4 12
	' "	' "	' "	' "	' "	' "
July - -		— 6.11	—16.40	— 3.53	— 2.18	+ 4.0
August - -	+ 1.36	—17.47	—28 44	— 4.07	— 2.39	+ 1.3
September -	+ 1.20	— 9.45	— 2.53	— 3.40	— 1.22	—10.1
October - -	— 0.31	— 4.36	— 3.02	— 4.34	— 7.28	— 3.1
November -	— 6.20		— 0.88	— 0.54	+ 4.27	+ 3.3
December -	+ 5.07	— 2.43			+ 3.16	
January - -	— 6.40	—10.27	— 0.21			+ 0.5
February -	+ 0.45	+ 7.35	— 0.18	+ 0.20	+ 1.37	
March - -	— 0.01	— 0.24	— 0.48	— 1.09	+ 6.20	— 1.2
April - -		— 1.01	— 9.31	— 3.15	— 4.46	— 8.16
May - -				— 1.47		+ 1.11
June - -	+ 0.43	+ 2.31	+ 0.38	+ 1.25	— 1.35	+ 0.51

1841-'42—Continued.

M. T., Göttingen M. T., Wash'n -	h. m. Noon 6 12	h. m. 14 00 8 12	h. m. 16 00 10 12	h. m. 18 00 12 12	h. m. 20 00 14 12	h. m. 22 00 16 12
	' "	' "	' "	' "	' "	' "
July - -			+ 0.46			
August - -	— 0.26	+ 8.54	+ 2.43	+ 1.12		— 1.11
September -	+ 8.01	+10.02	+ 2.48	— 0.15	+ 4.55	
October - -	+ 0.03	+14.25	+ 0.43			— 2.4
November -	+ 5.20	+ 0.20	+ 0.27	— 0.05	— 1.64	— 1.24
December -		+ 2.19	+ 5.18	+ 6.11	+ 1.12	
January - -	+ 6.08	+ 2.11	+ 1.58		+ 0.04	+ 2.2
February -	+ 9.01	+ 3.32	+ 1.08		— 0.37	+ 6.30
March - -		+ 0.19	— 1.06	— 0.46	+ 0.25	+ 2.3
April - -	+ 0.15	+ 0.49	+ 0.08		+ 0.10	+ 3.2
May - -	+ 4.49	+ 5.12		+ 2.27		— 1.25
June - -		— 2.31	— 0.27	+ 1.34	+ 0.46	+ 5.01

TABLE VII,

Showing the range of the declination in each month, from the bi-hourly observations.

1840–'41.

Month.	Day.	Hour, Gött.	Hour, Wash.	Maximum.	Minimum.	Day.	Hour, Gött.	Hour, Wash.	Monthly range.
				° ′ ″	° ′ ″				′ ″
July - -	16	22	16.12	1 26 49	1 08 25	17	8	2.12	18 24
August - -	8	20	14.12	1 31 37	0 55 19	20	4	22.12	36 18
September -	21	18	12.12	1 28 50	1 02 06	22	2	20.12	26 44
October - -	30	8	2.12	1 28 59	1 07 58	28	4	22.12	21 01
November -	21	20	14.12	1 30 46	1 04 27	21	2	20.12	26 19
December -	21	12	6.12	1 44 51	1 04 16	21	4	22.12	40 35
January - -	31	20	14.12	1 32 12	1 05 23	26	4	22.12	26 49
February -	23	0	18.12	1 31 29	1 02 26	7	10	4.12	29 03
March - -	15	0	18.12	1 29 10	1 09 16	22	14	8.12	19 44
April - -	18	20	14.12	1 29 53	1 12 48	12	4	22.12	17 05
May - -	6	20	14.12	1 30 13	1 07 34	6	4	22.12	22 39
June - -	17	20	14.12	1 30 38	1 12 24	25	14	8.12	18 14

1841–'42.

Month.	Day.	Hour, Gött.	Hour, Wash.	Maximum.	Minimum.	Day.	Hour, Gött.	Hour, Wash.	Monthly range.
				° ′ ″	° ′ ″				
July - -	24	20	14.12	1 31 41	1 10 18	20	4	22.12	21 23
August - -	6	18	12.12	1 33 10	1 04 00	27	4	22.12	29 10
September -	25	20	14.12	1 36 32	1 07 48	25	10	4.12	28 44
October - -	25	14	8.12	1 33 10	1 15 11	25	8	2.12	17 59
November -	6	12	6.12	1 31 41	1 12 41	21	0	18.12	19 00
December -	15	0	18.12	1 34 46	1 15 53	27	2	20.12	18 53
January - -	1	12	6.12	1 31 44	1 06 40	19	2	20.12	25 04
February -	24	22	16.12	1 37 17	1 19 25	10	16	10.12	17 52
March - -	3	8	2.12	1 35 44	1 18 02	27	14	8.12	17 42
April - -	21	8	2.12	1 35 07	1 09 00	16	8	2.12	26 07
May - -	6	18	12.12	1 35 56	1 17 38	24	14	8.12	18 18
June - -	19	22	16.12	1 38 26	1 14 37	5	8	2.12	23 49

From these tables we learn that disturbances have been most frequent in the months of August, September, and October, and at 4*h*., 8*h*., and 14*h*. Gottingen; least during the month of January, and at 18*h*., 20*h*., and 22*h*. Gottingen; and that the angular value of the disturbance of the magnet follows nearly the same law. At 2, 4, 6, and 8 hours, its north end has almost invariably been deflected to the east of its mean place; at 12, 14, 16, 18, 20, and 22 hours, to the west; and at 0 and 10 hours the deflection is as often in one direction as the other.

The variations of the declination observed during visible auroræ, embraced in pages 295 to 306, are the most prominent of the irregular changes. In every case, the disturbance was proportional to the brilliancy of the phenomenon and the rapidity of its phases; and, except on the 15th December, 1841, and 15th April, 1842, the declination was greater before, less during its visibility, and greater after its disappearance, than the mean hourly value for the month. From these, it will be seen that the greatest range of the magnet observed during the first year was 1° 13' 47", its least angle with the astronomical meridian being 0° 31' 04" at 2*h*. 55*m*., M. T. Gottingen, of the 29th August, 1840; and greatest angle 1° 44' 51", at 12*h*., Gottingen, of December 21. In the second year, its range was 1° 20' 20"; the least angle being 0° 38' 50" on the 20th July, 1841, at 3*h*. 42*m*., Gottingen, and greatest, 1° 59' 10" on the 15th April, 1842, at 5*h*. 43*m*., Gottingen.

To ascertain whether electrical phenomena exercised an influence on the declination, the magnet was closely observed during violent thunderstorms on the 6th March, 1st June, and 6th July, 1841, and 26th April and 27th May, 1842. On one occasion, the lightning struck within 300 yards, and on a second, within 200 feet of the observatory. It was also observed on the evening of the 30th July, 1840, when the whole eastern portion of the heavens was in an almost incessant blaze of lightning, unaccompanied by thunder, (generally termed sheet or summer lightning;) but at neither time has any especial change been noted, except a shivering, which immediately succeeded peals of thunder, and is believed to have been caused by percussion of the air.

PROGRESSIVE CHANGES OF THE DECLINATION.

That the angle which the direction of the magnet at Washington makes with the true meridian is gradually increasing, will be evident on inspection of its mean hourly values, embraced in pages 308 to 315. To render this progress more apparent, tables have been prepared from these values, which show the variation of the declination since the corresponding hour of the preceding month; its variation since the corresponding hour of the preceding year; the mean monthly value; the mean annual value at each observation hour; and the monthly and annual variations from their respective means.

MAGNETICAL OBSERVATIONS.

TABLE VIII,

Showing the variations of the declination since the corresponding hour of the preceding month.

1840-'41.

	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
M. T., Göttingen -	0 00	2 00	4 00	6 00	8 00	10 00
M. T., Washington	18 12	20 12	22 12	0 12	2 12	4 12
	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″
July -						
August -	—1 39.0	—2 27.3	—1 15.3	+0 03.2	+1 09.0	+0 11.8
September -	+2 17.0	+2 23.0	+2 20.6	+1 58.3	+0 27.8	+1 42.9
October -	—0 27.8	+0 26.1	—2 06.6	—0 48 9	+1 23.0	+0 15.0
November -	+1 11.0	+0 55.3	+2 45.0	+2 13.1	+1 23.2	+1 10.6
December -	+1 16.5	+0 04.4	—0 09 1	—0 23.2	+0 26.4	+1 02.8
January -	—1 10.6	—0 12.4	—0 37.3	—0 36.0	—0 26.8	—0 16.5
February -	—0 17.3	—0 21.2	—0 19.3	—0 35.6	—0 51.4	—1 32.1
March -	+0 01.3	+1 03.3	+0 58.2	+1 19.7	—1 58.7	+0 07.9
April -	+0 23.7	+0 03.8	—0 17.2	+0 20.2	—1 03.9	—0 17.0
May -	—0 02.4	+0 20.6	+1 09.2	+0 51.4	+1 15.0	+1 30.9
June -	—0 14.1	+0 51.9	+0 10 6	+0 12.8	+0 30.4	—0 12.8

1840-'41—Continued.

	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
M. T., Göttingen -	Noon.	14 00	16 00	18 00	20 00	22 00
M. T., Washington	6 12	8 12	10 12	12 12	14 12	16 12
	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″
July -						
August -	+0 23.9	—1 27.6	+1 18 6	+1 26.6	—0 23.5	—1 23.6
September -	+1 53.5	+1 52.1	+1 46.8	+1 56.9	+0 57.8	+0 28.5
October -	+2 07.7	+1 38.9	—1 27.2	—2 21.3	—0 55.4	+1 06.8
November -	+1 23.6	+2 08.7	+2 10.2	+1 10.6	+1 12.4	+0 50.0
December -	+3 16.3	+2 12.0	—0 29.7	—0 07.7	+0 52.9	+1 31.3
January -	—2 04.6	—0 52.0	—2 11.4	—1 35.4	—0 48.0	—0 44.6
February -	—1 16.4	—1 07.2	—0 29.7	—0 22.1	—0 28.8	—0 39.6
March -	—0 21.9	—1 58.5	+1 53.4	+2 25.8	+1 31.6	+1 15.0
April -	—0 09.6	+0 30.5	+0 17.5	+0 33.9	+1 20.1	+0 49.1
May -	—0 08.4	+0 00.4	+1 11.6	+0 18.9	—0 22.3	—0 27.7
June -	—0 47.8	—1 16.7	+0 33.9	+0 49.9	+0 01.9	+0 01.6

1841-'42.

	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
M. T., Göttingen -	0 00	2 00	4 00	6 00	8 00	10 00
M. T., Washington	18 12	20 12	22 12	0 12	2 12	4 12
	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″
July -	+1 51.2	+0 18.4	+0 31.5	+0 44.6	+1 05.0	+1 27.7
August -	—0 00.4	—0 47.9	—0 51.3	—0 27.3	—0 49.5	—0 16.0
September -	+0 03.6	+0 22.7	+1 44.6	+0 10.3	+1 28.9	+0 22.6
October -	—0 00.9	+0 20.0	—0 00.3	+1 27.8	—0 03.6	+1 22.2
November -	—1 10.9	—0 47.6	—0 34.2	—1 01.0	—0 27.2	—0 49.5
December -	+0 09.6	—0 14.0	+0 08.6	+0 11.7	+0 39.5	+0 10.6
January -	—0 12.6	+0 06.3	—0 23.1	—0 02.3	—0 35.6	—0 01.0
February -	+2 44.0	+3 22.0	+2 24.6	+1 37.8	+1 44.1	+1 21.5
March -	+1 11.3	+0 08.6	+0 23.7	+0 43.0	+1 06.2	+0 17.8
April -	+0 47.6	+1 30.2	+0 28.4	+0 34.4	—1 15.2	—0 40.5
May -	—0 57.4	—0 13.3	+0 51.9	+0 12.7	+0 57.0	+1 04.9
June -	+0 37.3	—0 03.9	—0 07.2	—0 09.2	+0 40.0	+0 27.9

1841-'42—Continued.

	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
M. T., Göttingen -	Noon.	14 00	16 00	18 00	20 00	22 00
M. T., Washington	6 12	8 12	10 12	12 12	14 12	16 12
	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″
July -	+1 55.9	+1 30.1	—1 11.4	+1 09.3	+1 49.6	+1 43.5
August -	—1 00.8	—0 42.5	+1 03.6	+1 15.6	+0 06.3	—0 48.9
September -	+2 34.9	+2 34.7	+0 26.7	—0 51.5	—0 14.5	—0 04.4
October -	+2 18.6	+1 58.0	—0 07.6	—0 22.6	—0 50.5	+0 13.0
November -	—0 55.9	—0 24.0	—0 05.7	—1 21.6	—1 31.4	—1 07.1
December -	+0 13.0	+0 41.7	—0 38.8	—0 28.5	+0 10.5	—0 20 9
January -	+0 02.4	—1 00.2	—0 43.4	+0 12.0	—0 14.6	+0 00.8
February -	+2 03.2	+2 03.7	+2 11.1	+0 52.2	+1 12.4	+1 45.4
March -	—0 22.5	+0 35.8	—0 25.9	+1 48.6	+1 48.1	+1 26.8
April -	—0 20.4	+0 22.6	+1 25.2	+0 44.8	+0 57.1	+0 29.5
May -	—1 14.0	+1 05.9	+1 51.3	+0 58.1	—0 14.9	—0 48.0
June -	+0 02.0	—0 05.7	—1 22.7	—0 38.7	+0 29.8	+1 54.5

MAGNETICAL OBSERVATIONS.

TABLE IX,

Showing the variations of the declination since the corresponding hour and month of the preceding year.

	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
M. T., Göttingen -	0 00	2 00	4 00	6 00	8 00	10 00
M. T., Washington	18 12	20 12	22 12	0 12	2 12	4 12
	' "	' "	' "	' "	' "	' "
July -	+4 09.5	+3 43.1	+4 10.3	+4 40.2	+5 50.7	+5 20.4
August -	+5 48.1	+5 24.9	+4 34.3	+4 09.7	+3 52.2	+4 52.6
September -	+3 34.7	+3 24.6	+2 58.3	+2 21.7	+4 43.3	+3 22.3
October -	+4 01.6	+3 08.5	+5 04.6	+4 38.4	+3 26.7	+4 29.5
November -	+1 39.7	+1 25.6	+1 45.4	+1 24.3	+1 36.3	+2 29.4
December -	+0 28.9	+1 07.2	+2 03.1	+1 59.2	+1 49.4	+1 37.2
January -	+0 30.8	+1 25.9	+2 17.3	+2 32.6	+2 06.3	+1 52.7
February -	+3 32.1	+5 09.4	+5 01.2	+4 46.0	+4 418.	+4 46.3
March -	+4 42 1	+4 14.7	+4 26.7	+4 09.3	+4 49.3	+4 56.2
April -	+5 06.0	+5 41.1	+5 12.3	+5 03.9	+4 38.0	+4 32.7
May -	+4 11.0	+5 07.6	+4 55.0	+4 25.2	+4 20.0	+4 06.7
June -	+5 02.4	+4 11.8	+4 37.2	+4 02.2	+4 29.6	+4 47.5
Means -	+3 33.9	+3 40.5	+3 55.5	+3 41.1	+3 52.8	+3 56.1

TABLE IX—Continued.

	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
M. T., Göttingen -	Noon.	14 00	16 00	18 00	20 00	22 00
M. T., Washington	6 12	8 12	10 12	12 12	14 12	16 12
	' "	' "	' "	' "	' "	' "
July -	+4 24.1	+4 02.7	+4 22.6	+5 36.4	+4 48.3	+4 34.3
August -	+3 47.2	+4 47.8	+4 07.6	+5 15.4	+5 18.1	+5 09.0
September -	+4 28.6	+4 30.4	+2 47.5	+2 27.0	+4 05.8	+4 36.1
October -	+4 39.5	+4 57.5	+4 07.1	+4 25.7	+4 10.7	+3 42.3
November -	+2 20.0	+2 24.8	+1 51.2	+1 53.5	+1 26.9	+1 45.2
December -	—0 43.3	+0 54.5	+1 42.1	+1 32.7	+0 44.5	—0 04.8
January -	+1 12.6	+0 46.3	+3 10.1	+3 20.1	+1 17.9	+0 38.4
February -	+5 32.2	+3 57.2	+5 50.9	+4 34.4	+3 59.1	+4 08.4
March -	+5 31.6	+5 19.9	+3 31.6	+3 56.2	+4 15.6	+4 15.2
April -	+5 20.8	+5 12.0	+4 39.3	+4 07.1	+3 52.6	+3 55.6
May -	+4 15.2	+4 05.7	+5 19.0	+4 46.3	+4 00.0	+3 31.3
June -	+5 05.0	+5 16.7	+3 22.4	+3 17.7	+4 27.9	+5 24.2
Means -	+3 49.5	+3 51.3	+3 44.3	+4 46.0	+3 32.3	+3 27.5

TABLE X,

Showing the mean annual declination at each observation hour, and it hourly and annual variations.

Mean time.		1840-'41.	1841-'42.	Hourly variation: 1840-'41.	Hourly variation: 1841-'42.	Mean hourly variation.	Annual variation.
Gott'n.	Wash.						
h. m.	*h. m.*	° ′ ″	° ′ ″	′ ″	′ ″	′ ″	′ ″
0 00	18 12	1 20 53.4	1 24 27.3	—1 52.0	—1 45.8	—1 48.5	+3 33.
2 00	20 12	1 19 33.0	1 23 13.5	—1 20.4	—1 13.8	—1 17.1	+3 40
4 00	22 12	1 19 01.3	1 22 56.8	—0 31.7	—0 16.7	—0 24.2	+3 5
6 00	0 12	1 19 20.3	1 23 01.4	+0 19.0	+0 04.6	+0 11.8	+3 41
8 00	2 12	1 19 25.3	1 23 18.1	+0 05.0	+0 16.7	+0 10.9	+3 52
10 00	4 12	1 18 51.1	1 22 47.2	—0 34.2	—0 30.9	—0 32.5	+3 56.
Noon.	6 12	1 17 57.1	1 21 46.6	—0 54.0	—1 00.6	—0 57.3	+3 49.
14 00	8 12	1 17 06.6	1 20 57.9	—1 50.5	—0 48 7	—0 49.6	+3 51.
16 00	10 12	1 19 36.2	1 23 20.5	+1 29.6	+2 22.6	+1 56.1	+3 44.
18 00	12 12	1 23 33.3	1 27 19.3	+3 57.1	+3 58.8	+3 57.9	+3 46.
20 00	14 12	1 24 29.4	1 28 01.7	+0 56.1	+0 42.4	+0 49.2	+3 32.
22 00	16 12	1 22 45.4	1 26 12.9	—1 44.0	—1 48.8	—0 46.4	+3 27.
Means	-	1 20 12.7	1 23 56.9	-	-	-	3 44.

TABLE XI,

Showing the mean monthly declination, and its monthly and annu variations.

Month.		1840-'41.	1841-'42.	Monthly variation: 1840-'41.	Monthly variation: 1841-'42.	Mean monthly variation.	Annual variation.
		° ′ ″	° ′ ″	′ ″	′ ″	′ ″	′ ″
July	-	1 18 00.3	1 22 39.0	-	+1 10.4	+0 43.1	+4 38.
August	-	1 17 36.8	1 22 22.4	—0 23.5	—0 16.6	—0 20.0	+4 45.
September	-	1 19 28.1	1 23 05.6	+1 51.3	+0 43,2	+1.17.2	+3 37
October	-	1 19 22.4	1 23 36.8	—0 05.7	+0 31.2	+0 12.8	+4 14
November	-	1 20 55.2	1 22 45.4	+1 32.8	—0 51.4	+0 20.7	+1 50.
December	-	1 21 42.9	1 22 49.0	+0 51.0	+0 03.6	+0 27.3	+1 06
January	-	1 20 47.9	1 22 33.8	—0 55.0	—0 15.2	—0 35.1	+1 45
February	-	1 20 01.1	1 24 40.6	—0 47.6	+2 06.8	+0 39.6	+4 39
March	-	1 20 47.4	1 25 18.1	+0 46.3	+0 37.5	+0 41.9	+4 30
April	-	1 20 56.6	1 25 43.4	+0 09.2	+0 25.3	+0 17.2	+4 46.
May	-	1 21 25.0	1 25 50.3	+0 28.4	+0 06.9	+0 17.6	+4 25
June	-	1 21 28.6	1 25 58.9	+0 18.6	+0 08.6	+0 13.6	+4 30
Means	-	1 20 12.7	1 23 56.9	-	-	-	3 44.

It appears, from these tables, that the bi-hourly variations of each year are quite accordant, and their periods uniformly designated. The mean monthly declination has increased during all the months, except August and January of each year, October of 1840, and February and November of 1842; the increase having been greatest in September, July, and March. The annual variation, derived from the mean annual declination at each observation hour, is nearly the same throughout. That obtained from the monthly means shows a much lesser amount between the months of November, December, and January, than at other seasons of the year; but a much longer series of observations is considered essential to the accurate determination of secular changes or an annual period.

TABLE XII,

Showing the mean inclination observed by each needle in the several months, with the monthly and annual values derived from all the observations.

Month.	Needle A.			Needle B.			Needle C.			Monthly means.		
1840-'41.												
	°	′	″	°	′	″	°	′	″	°	′	″
July - -	71	27	12.1	71	22	46.1	71	32	30.0	71	26	26.7
August - -	71	11	43.1	71	42	22.0	71	22	07.8	71	18	50.4
September - -	71	17	21.4	71	14	49.4				71	17	11.1
October - -				71	17	34.1				71	17	34.1
November - -				71	36	48.5	71	25	20.5	71	31	04.5
December - -							71	17	59.0	71	17	59.0
January - -							71	21	20.4	71	21	20.4
February - -	71	25	19.2				71	19	44.3	71	23	47.9
March - -	71	17	07.0							71	17	07.0
April - -	71	19	42.9							71	19	42.9
May - -	71	15	55.7							71	15	55.7
June - -	71	15	02.2							71	15	02.2
Annual means	71	18	40.4	71	26	31.6	71	23	10.8	71	20	10.8
1841-'42.												
July - -	71	18	01.0	71	23	10.1				71	21	09.6
August - -	71	26	15.0	71	27	48.0	71	24	41.0	71	25	37.8
September - -	71	19	51.3	71	42	12.5	71	27	01.5	71	28	17.4
October - -							70	51	15.0	70	51	15.0
November - -				70	53	20.0	71	19	24.0	71	10	42.8
December - -				71	16	08.0	71	18	47.2	71	17	39.4
January - -				71	18	29.7	71	15	26.5	71	16	27.6
February - -				71	03	28.6	71	26	02.8	71	19	50.1
March - -				70	58	59.6	71	32	12.2	71	17	06.5
April - -	71	40	59.5	71	20	41.0	71	29	58.3	71	32	05.8
May - -							71	17	43.0	71	17	43.0
June - -	71	25	49.2	70	54	00.0	71	16	22.8	71	18	38.2
Annual means	71	26	11.4	71	13	49.7	71	25	21.2	71	18	02.8

METEOROLOGICAL JOURNAL

KEPT

AT THE OBSERVATORY, CAPITOL HILL, WASHINGTON,

MONTHLY,

FROM JULY, 1838, TO JUNE, 1842.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1838.

9 A. M.

Days of the month.		Phases of the moon.	Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.		°	°	°			
Sun.	1		30.120		79.0	73.0	6.0	S. S. W.	Moderate	Cloudy
Mon.	2		30.200		80.0	75.0	5.0	South	Light	Cloudy
Tues.	3		29.984		81.0	72.0	9.0	South	Light	Cloudy
Wed.	4		30.100		84.0	73.0	11.0	Southeast	Fresh	Clear
Thu.	5		30.140		84.0	74.0	10.0	West	Fresh	Clear
Fri.	6		30.228		80.0	59.0	21.0	S'd & W'd	Light	Clear
Sat.	7	○	30.220		80.0	65.0	15.0	West	Light	Clear
Sun.	8		30.190		84.0	71.0	13.0	West	Light	Clear
Mon.	9		30.186		85.0	[illegible].0	8.0	Northwest	Light	Clear
Tues.	10		30.088		88.0	77.0	11.0	South	Moderate	Clear
Wed.	11		30.000		88.0	78.0	10.0	Southwest	Moderate	Clear
Thu.	12		30.044		88.0	76.0	12.0	Southwest	Moderate	Cloudy
Fri.	13		30.272		76.0	67.0	9.0	S'd & W'd	Light	Cloudy
Sat.	14	☽	30.378		77.0	67.0	10.0	N'd & E'd	Light	Cloudy
Sun.	15		30.022		82.0	77.0	5.0	S'd & W'd	Light	Cloudy
Mon.	16		30.022		82.0	77.0	5.0	West	Light	Cloudy
Tues.	17		30.128		83.0	72.0	11.0	Southwest	Light	Cloudy
Wed.	18		30.221		84.0	79.0	5.0	South	Light	Cloudy
Thu.	19		30.150		87.0	75.0	12.0	Southwest	Moderate	Clear
Fri.	20		30.170		89.0	72.0	17.0	S'd & W'd	Moderate	Clear
Sat.	21	●	30.040		87.0	76.0	11.0	N'd & W'd	Moderate	Clear
Sun.	22		30.200		77.0	55.0	22.0	N'd & E'd	Moderate	Clear
Mon.	23		30.232		75.0	63.0	12.0	N'd & E'd	Moderate	Clear
Tues.	24		30.176		75.0	59.0	16.0	South	Moderate	Clear
Wed.	25		30.021		80.0	67.0	13.0	South	Moderate	Clear
Thu.	26		30.044		81.0	70.0	11.0	S'd & W'd	Moderate	Clear
Fri.	27		30.220		87.0	77.0	10.0	N'd & W'd	Moderate	Clear
Sat.	28		30.020		87.0	77.0	10.0	N'd & W'd	Moderate	Clear
Sun.	29	☽	30.036		88.0	84.0	4.0	N'd & W'd	Moderate	Clear
Mon.	30		29.926		88.0	77.0	11.0	N'd & W'd	Moderate	Clear
Tues.	31		30.044		85.0	68.0	17.0	N'd & W'd	Moderate	Clear
	Mean		30.122		82.94	71.90	11.04			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1838—Continued.

3 P. M.								Registering thermometers.	
	Thermometer.		Hygrometer.		Wind.				
Barometer.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.
Inches.	°	°	°	°				°	°
30.150		85.0	75.0	10.0	S'd & W'd	Moderate	Cloudy	89.0	71.0
30.201		84.0	70.0	14.0	South	Light	Cloudy	90.0	74.0
30.072		92.0	71.0	21.0	South	Light	Cloudy	93.0	75.0
30.004		88.0	72.0	16.0	S'd & E'd	Fresh	Cloudy	94.0	76.0
30.114		91.0	73.0	18.0	West	Fresh	Cloudy	95.0	76.0
30.228		84.0	57.0	27.0	S'd & W'd	Light	Clear	89.0	69.0
30.168		88.0	62.0	26.0	West	Light	Clear	93.0	73.0
30.160		90.0	65.0	25.0	West	Light	Clear	98.0	77.0
30.130		94.0	74.0	20.0	N'd & W'd	Light	Clear	100.0	80.0
30.044		95.0	76.0	19.0	South	Moderate	Clear	102.0	79.0
29.992		96.0	80.0	16.0	S'd & W'd	Moderate	Clear	96.0	68.0
29.750		81.0	81.0	00.0	S'd & W'd	Moderate	Rain	82.0	70.0
30.200		80.0	65.0	15.0	Variable	Light	Clear	84.0	67.0
30.210		82.0	65.0	17.0	N'd & E'd	Light	Clear	89.0	71.0
30.240		82.0	64.0	18.0	S'd & W'd	Light	Clear	85.0	76.0
30.038		88.0	64.0	24.0	West	Light	Clear	91.0	78.0
30.134		88.0	68.0	20.0	S'd & W'd	Light	Clear	94.0	79.0
30.190		88.0	71.0	17.0	South	Light	Clear	90.0	80.0
30.122		95.0	75.0	20.0	S'd & W'd	Moderate	Clear	103.0	82.0
29.992		97.0	72.0	25.0	S'd & W'd	Moderate	Clear	98.0	62.0
30.026		92.0	72.0	20.0	N'd & W'd	Moderate	Clear	92.0	61.0
30.160		75.0	65.0	10.0	N'd & E'd	Moderate	Clear	79.0	68.0
30.186		79.0	51.0	28.0	N'd & E'd	Moderate	Clear	88.0	72.0
30.084		81.0	60.0	21.0	South	Moderate	Clear	93.0	87.0
29.968		88.0	88.0	00.0	South	Moderate	Rain	89.0	74.0
30.054		88.0	76.0	12.0	S'd & W'd	Moderate	Cloudy	96.0	84.0
30.082		91.0	76.0	15.0	N'd & W'd	Moderate	Cloudy	99.0	76.0
30.022		95.0	75.0	20.0	N'd & W'd	Moderate	Cloudy	99.0	76.0
30.022		95.0	75.0	20.0	N'd & W'd	Moderate	Cloudy	100.0	76.0
30.012		92.0	79.0	13.0	N'd & W'd	Moderate	Cloudy	97.0	79.0
29.968		88.0	80.0	8.0	N'd & W'd	Moderate	Cloudy	89.0	75.0
30.085		88.13	70.87	17.26				92.77	73.58

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1838.

Days of the month.		Phases of the moon.	9 A. M.							
			Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Wed.	1		29.996		86.0	63.0	23.0	Eastward	Moderate	Clear
Thu.	2		30.160		80.0	58.0	22.0	Eastward	Moderate	Clear
Fri.	3		30.278		77.0	57.0	20.0	N'd & E'd	Moderate	Clear
Sat.	4		30.382		77.0	69.0	8.0	Southwest	Moderate	Hazy
Sun.	5	○	30.258		80.0	68.0	12.0	Southwest	Moderate	Clear
Mon.	6		30.072		85.0	74.0	11.0	Southwest	Moderate	Clear
Tues.	7		30.100		88.0	75.0	13.0	S'd & W'd	Moderate	Clear
Wed.	8		30.270		84.0	58.0	26.0	S'd & W'd	Moderate	Clear
Thu.	9		30.158		85.0	66.0	19.0	S'd & W'd	Moderate	Clear
Fri.	10		30.080		86.0	73.0	13.0	N'd & W'd	Moderate	Clear
Sat.	11		30.019		81.0	71.0	10.0	N'd & W'd	Moderate	Clear
Sun.	12	☾	30.129		81.0	71.0	10.0	N'd & W'd	Moderate	Clear
Mon.	13		30.176		81.0	56.0	25.0	Eastward	Moderate	Clear
Tues.	14		30.324		75.0	47.0	28.0	N'd & W'd	Moderate	Clear
Wed.	15		30.302		76.0	60.0	16.0	N'd & W'd	Moderate	Cloudy
Thu.	16		30.240		88.0	70.0	18.0	S'd & E'd	Moderate	Cloudy
Fri.	17		29.948		76.0	58.0	18.0	S'd & E'd	Moderate	Cloudy
Sat.	18		30.022		75.0	56.0	19.0	N'd & W'd	Fresh	Clear
Sun.	19		30.242		79.0	62.0	17.0	N'd & W'd	Fresh	Clear
Mon.	20	●	30.340		79.0	70.0	9.0	N'd & W'd	Light	Clear
Tues.	21		30.382		79.0	63.0	16.0	N'd & E'd	Light	Clear
Wed.	22		30.316		80.0	66.0	14.0	N'd & E'd	Light	Clear
Thu	23		30.340		81.0	66.0	15.0	South	Light	Clear
Fri.	24		30.238		81.0	70.0	11.0	South	Light	Clear
Sat.	25		30.092		84.0	70.0	14.0	South	Light	Clear
Sun.	26		29.982		82.0	50.0	32.0	Northeast	Light	Clear
Mon.	27		30.154		83.0	57.0	16.0	Northeast	Light	Clear
Tues.	28	☽	29.964		81.0	67.0	14.0	Northeast	Light	Clear
Wed.	29		30.192		76.0	68.0	8.0	N'd & W'd	Light	Clear
Thu.	30		30.192		76.0	67.0	9.0	N'd & E'd	Light	Clear
Fri.	31		30.206		76.0	57.0	19.0	N'd & E'd	Light	Clear
Mean			30.179		80.58	63.97	16.61			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1838—Continued.

3 P. M.								Registering thermometers.		Rain or snow.
	Thermometer.		Hygrometer.		Wind.					
Barometer.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	
Inches.	°	°	°	°						*Inch.*
29.996		86.0	63.0	23.0	Eastward	Moderate	Clear	90.0	73.0	
30.126		80.0	60.0	20.0	Eastward	Moderate	Clear	86.0	73.0	
30.304		82.0	51.0	31.0	Northeast	Moderate	Clear	86.0	65.0	
30.340		85.0	59.0	26.0	Southwest	Moderate	Haze	91.0	62.0	
30.197		91.0	72.0	19.0	Southwest	Moderate	Clear	93.0	76.0	
29.952		89.0	72.0	17.0	Southwest	Moderate	Clear	95.0	82.0	
30.092		90.0	67.0	23.0	Southwest	Moderate	Clear	99.0	88.0	
30.068		88.0	64.0	24.0	Southwest	Moderate	Clear	93.0	77.0	
30.169		89.0	68.0	21.0	Southwest	Moderate	Clear	93.0	76.0	
30.144		90.0	72.0	18.0	Northwest	Moderate	Clear	98.0	77.0	0.800
29.980		91.0	73.0	18.0	Northwest	Moderate	Clear	95.0	74.0	
30.019		87.0	60.0	27.0	Northwest	Moderate	Clear	91.0	74.0	
30.156		85.0	55.0	30.0	Eastward	Moderate	Clear	89.0	69.0	
30.282		89.0	56.0	33.0	N'd & W'd	Moderate	Clear	92.0	70.0	
30.210		81.0	62.0	19.0	N'd & W'd	Moderate	Cloudy	82.0	70.0	
29.878		84.0	68.0	16.0	S'd & E'd	Moderate	Cloudy	92.0	67.0	0.120
29.948		88.0	58.0	30.0	S'd & E'd	Moderate	Cloudy	91.0	66.0	
30.026		83.0	55.0	28.0	N'd & W'd	Moderate	Clear	85.0	66.0	
30.244		82.0	56.0	26.0	N'd & W'd	Fresh	Clear	85.0	71.0	
30.328		84.0	57.0	27.0	N'd & W'd	Fresh	Clear	87.0	69.0	
30.360		85.0	62.0	23.0	N'd & E'd	Light	Clear	90.0	77.0	
30.246		89.0	67.0	22.0	N'd & E'd	Light	Clear	90.0	79.0	
30.236		88.0	63.0	25.0	South	Light	Clear	94.0	74.0	
30.188		88.0	65.0	23.0	South	Light	Clear	94.0	74.0	
30.006		81.0	51.0	30.0	South	Light	Clear	84.0	74.0	
29.974		79.0	60.0	19.0	N'd & E'd	Light	Clear	81.0	67.0	
29.972		82.0	78.0	4.0	N'd & E'd	Light	Clear	83.0	71.0	
30.179		80.0	56.0	24.0	N'd & E'd	Light	Clear	86.0	75.0	
30.146		84.0	64.0	20.0	N'd & W'd	Light	Clear	85.0	70.0	
30.034		83.0	65.0	18.0	N'd & E'd	Light	Clear	84.0	72.0	
30.024		84.0	63.0	21.0	N'd & E'd	Light	Clear	86.0	72.0	
30.123		85.42	62.67	22.75				89.79	72.26	0.920

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1838.

Days of the month.		Phases of the moon.	9 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Sat.	1			83.0	67.0	16.0	Northward	Fresh	Cloudy
Sun.	2		30.192	70.0	42.0	28.0	Northward	Fresh	Clear
Mon.	3		30.364	67.0	37.0	30.0	Northward	Moderate	Clear
Tues.	4	○	30.388	66.0	46.0	20.0	Northward	Moderate	Clear
Wed.	5		30.366	71.0	45.0	26.0	Northward	Moderate	Clear
Thu.	6		30.418	75.0	51.0	24.0	Northward	Moderate	Clear
Fri.	7		30.360	76.0	60.0	16.0	Northward	Moderate	Clear
Sat.	8		30.310	77.0	66.0	11.0	East	Light	Cloudy
Sun.	9		30.320	74.0	62.0	12.0	Eastward	Light	Cloudy
Mon.	10		30.250	71.0	62.0	9.0	Eastward	Light	Cloudy
Tues.	11	☾	30.020	73.0	68.0	5.0	N'd & E'd	Fresh	Cloudy
Wed.	12		29.772	75.0	75.0	0.0	N'd & E'd	Light	Rain
Thu.	13		30.004	71.0	62.0	9.0	N'd & E'd	Light	Clear
Fri.	14		30.324	72.0	64.0	8.0	N'd & E'd	Light	Clear
Sat.	15		30.354	74.0	66.0	8.0	N'd & E'd	Light	Clear
Sun.	16		30.284	72.0	66.0	6.0	N'd & E'd	Light	Clear
Mon.	17		30.006	67.0	55.0	12.0	North	Light	Clear
Tues.	18		29.850	74.0	66.0	8.0	Variable	Airy	Clear
Wed.	19	●	29.928	71.0	55.0	16.0	N'd & E'd	Airy	Cloudy
Thu.	20		30.156	67.0	54.0	13.0	N'd & E'd	Light	Cloudy
Fri.	21		30.092	71.0	71.0	0.0	S'd & W'd	Light	Rain
Sat.	22		30.024	74.0	64.0	10.0	S'd & W'd	Light	Cloudy
Sun.	23		30.038	71.0	61.0	10.0	S'd & W'd	Light	Cloudy
Mon.	24		30.308	61.0	40.0	21.0	S'd & W'd	Fresh	Cloudy
Tues.	25		30.360	63.0	62.0	1.0	N'd & E'd	Fresh	Cloudy
Wed.	26	☽	30.228	72.0	72.0	0.0	N'd & E'd	Fresh	Rain
Thu.	27		30.258	66.0	58.0	8.0	S'd & W'd	Moderate	Cloudy
Fri.	28		30.220	69.0	67.0	2.0	N'd & W'd	Moderate	Cloudy
Sat.	29		29.842	72.0	72.0	0.0	N'd & W'd	Moderate	Rain
Sun.	30		30.142	69.0	55.0	14.0	S'd & W'd	Moderate	Clear
Mean			30.179	71.13	59.70	11.43			

REMARKS.

September 15.—An aurora borealis visible at 7*h*. 30*m*. P. M. A diffused light, with occasional streamers, till 11 P. M.

September 16.—An aurora visible during the evening.

September 17.—An aurora.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1838—Continued.

3 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain.
Inches.	°	°	°				°	°	*Inches.*
	82.0	58.0	24.0	North	Fresh	Cloudy	88.0	58.0	
30.178	85.0	59.0	26.0	Northward	Fresh	Clear	85.0	52.0	
30.296	70.0	40.0	30.0	Northward	Moderate	Clear	78.0	65.0	
30.344	72.0	41.0	31.0	Northward	Moderate	Clear	72.0	65.0	
30.324	80.0	50.0	30.0	Northward	Moderate	Clear	80.0	64.0	
30.357	83.0	50.0	33.0	Northward	Moderate	Clear	83.0	66.0	
30.312	84.0	58 0	26.0	Northward	Moderate	Clear	84.0	67.0	
30 296	86.0	57.0	29.0	East	Light	Cloudy	87.0	67.0	
30.312	76.0	64.0	12.0	East	Light	Cloudy	76.0	62.0	
30.180	78.0	60.0	18 0	Eastward	Light	Cloudy	78.0	67.0	
30.034	76.0	66.0	10.0	N'd & E'd	Fresh	Cloudy	80.0	67.0	
29.668	75.0	75.0	0.0	N'd & E'd	Light	Rain	75.0	68.0	0.75
30.046	74.0	60.0	14.0	N'd & E'd	Light	Clear	74.0	62.0	0.56
30.288	75.0	64.0	11.0	N'd & E'd	Light	Clear	79.0	62.0	
30.208	79.0	55.0	24.0	N'd & E'd	Light	Clear	79.0	62.0	
30.316	79.0	65 0	14.0	N'd & E'd	Light	Clear	79.0	62.0	
29.942	77.0	63.0	14.0	North	Light	Clear	77.0	65.0	
29.784	88.0	57.0	31.0	Variable	Light	Clear	90.0	62.0	
29.918	78.0	50.0	28 0	Northeast	Light	Cloudy	82.0	60.0	
30.101	70.0	64.0	6.0	N'd & E'd	Light	Cloudy	76.0	58.0	
30.018	70.0	63.0	7.0	Southwest	Light	Cloudy	79.0	69.0	2.45
30.028	81.0	69.0	12.0	S'd & W'd	Light	Cloudy	81.0	55.0	
30.056	70.0	45.0	25.0	S'd & W'd	Light	Cloudy	72.0	47.0	
30.306	67.0	42.0	25.0	S'd & W'd	Fresh	Cloudy	77.0	48.0	
30.511	65.0	53.0	12.0	N'd & E'd	Fresh	Cloudy	72.0	55.0	3.00
30.248	73.0	63.0	10.0	N'd & E'd	Fresh	Cloudy	73.0	62.0	
30.258	69.0	50.0	19.0	S'd & W'd	Moderate	Cloudy	74.0	63.0	1.54
30.224	69.0	58.0	11.0	N'd & E'd	Moderate	Cloudy	76.0	68.0	
29.980	75.0	64.0	11.0	N'd & E'd	Moderate	Cloudy	86.0	50.0	
30.118	71.0	58.0	13.0	S'd & W'd	Moderate	Clear	76.0	58.0	
30.159	75.90	57.37	18.53				78.93	61.03	8.29

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1838.

Days of the month.		Phases of the moon.	9 A. M.							
			Barometer.	Thermom'rs.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Mon.	1		30.212		68.0	57.0	11.0	Variable	Light	Cloudy
Tues.	2		30.198		64.0	59.0	5.0	Variable	Light	Fair
Wed.	3	○	30.038		67.0	64.0	3.0	N'd & E'd	Moderate	Fair
Thu.	4		30.254		63.0	53.0	10.0	S'd & W'd	Light	Fair
Fri.	5		30.158		62.0	55.0	7.0	S'd & W'd	Light	Clear
Sat.	6		29.868		63.0	56.0	7 0	Southwest	Moderate	Clear
Sun.	7		30.024		61.0	46.0	15.0	N'd & E'd	Moderate	Cloudy
Mon.	8		30.100		60.0	48.0	12.0	Northwest	Light	Clear
Tues.	9		29.808		60.0	45.0	15.0	S'd & W'd	Light	Cloudy
Wed.	10	☾	29.658		60.0	54.0	6 0	S'd & E'd	Light	Cloudy
Thu.	11		29.766		55.0	55.0	0.0	N'd & W'd	Fresh	Rain
Fri.	12		29.900		52.0	52.0	0.0	N'd & W'd	Fresh	Rain
Sat.	13		30.192		48.0	32.0	16 0	N'd & W'd	Moderate	Clear
Sun.	14		29.901		55.0	45.0	10.0	N'd & W'd	Light	Haze
Mon.	15		29.804		60 0	60.0	0.0	N'd & W'd	Moderate	Rain
Tues.	16		30.260		48.0	35.0	13.0	N'd & W'd	Light	Clear
Wed.	17		30.530		45.0	32.0	13.0	N'd & W'd	Moderate	Clear
Thu.	18	●	30.514		46.0	39.0	7.0	S'd & W'd	Light	Clear
Fri.	19		30.060		56.0	56.0	0.0	N'd & E'd	Light	Rain
Sat.	20		30.084		50.0	32 0	18.0	Northwest	Moderate	Clear
Sun.	21		30.078		48.0	37.0	11.0	N'd & W'd	Moderate	Cloudy
Mon.	22		30.186		44.0	35.0	9.0	Westward	Moderate	Clear
Tues.	23		30.360		42.0	35.0	7.0	Northward	Light	Haze
Wed.	24		29.892		48.0	48.0	0.0	S'd & W'd	Light	Rain
Thu.	25		29.726		48.0	40.0	8.0	N'd & W'd	Fresh	Cloudy
Fri.	26	☽	30.118		42.0	35.0	7.0	N'd & W'd	Moderate	Cloudy
Sat.	27		30.044		48.0	40.0	8.0	S'd & W'd	Light	Clear
Sun.	28		29.983		50.0	40.0	10.0	N'd & W'd	Fresh	Haze
Mon.	29		30.022		42.0	25.0	17.0	N'd & W'd	Fresh	Clear
Tues.	30		30.176		48.0	24.0	24.0	S'd & W'd	Light	Clear
Wed.	31		30.224		40.0	31.0	9.0	N'd & W'd	Fresh	Cloudy
Mean			30.070		53.00	44.03	8.97			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1838—Continued.

3 P. M.								Registering thermometers.		
	Thermom'rs.		Hygrometer.		Wind.					
Barometer.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.		°	°	°				°	°	*Inches.*
30.166		75.0	58.0	17.0	Variable	Light	Cloudy	77.0	58.0	
30.088		74.0	62.0	12.0	Variable	Light	Fair	78.0	63.0	
30.142		78.0	70.0	8.0	N'd & E'd	Moderate	Fair	82.0	50.0	
30.212		68 0	56.0	12.0	S'd & W'd	Light	Fair	77.0	49.0	
30.012		68.0	50.0	18.0	S'd & W'd	Light	Clear	77.0	54.0	
29.851		71.0	57.0	14.0	S'd & W'd	Moderate	Clear	71.0	51.0	
30.040		68.0	56.0	12.0	Northeast	Moderate	Cloudy	76.0	40.0	
30.100		68.0	56.0	12.0	N'd & W'd	Light	Clear	76.0	42.0	
29.801		63.0	48.0	15.0	Southwest	Light	Cloudy	64.0	40.0	
29.516		63.0	63.0	0.0	Southeast	Light	Rain	63.0	35.0	1.10
29.882		57.0	40.0	17.0	Northwest	Fresh	Clear	67.0	57.0	0.70
29.872		59.0	44.0	15.0	W.N.W.	Fresh	Cloudy	63.0	36.0	0.01
30.090		56.0	38.0	18.0	N'd & W'd	Moderate	Clear	58.0	41.0	
29.828		60.0	52.0	8.0	N'd & W'd	Light	Haze	67.0	49.0	
29.822		64.0	50.0	14.0	N'd & W'd	Moderate	Clear	69.0	37.0	0.30
30.266		58.0	34.0	24.0	N'd & W'd	Light	Clear	62.0	34.0	
30.489		59.0	36.0	23.0	N'd & W'd	Moderate	Clear	60.0	35.0	
30.120		60.0	41.0	19.0	Southwest	Light	Cloudy	62.0	40.0	
29.886		60.0	60.0	0.0	Northeast	Light	Rain	60.0	40.0	0.60
30.022		56.0	31.0	25.0	N'd & W'd	Moderate	Clear	61.0	39.0	0.10
30.022		52.0	32.0	20.0	N'd & W'd	Moderate	Cloudy	52.0	33.0	
30 190		50.0	32.0	18.0	West	Moderate	Clear	58.0	33.0	
30.266		58.0	40.0	18.0	North	Light	Clear	66.0	35.0	
29.772		52.0	52.0	0.0	Southwest	Light	Rain	55.0	38.0	1.90
29.740		50.0	34.0	16.0	Northwest	Fresh	Clear	53.0	32.0	
30.074		54.0	31.0	23.0	N'd & W'd	Moderate	Clear	61.0	35.0	
30.014		58.0	42.0	16.0	S'd & W'd	Light	Haze	63.0	37.0	
29.780		56.0	56.0	0.0	N'd & W'd	Fresh	Rain	57.0	33.0	0.15
30.042		44.0	24.0	20.0	N'd & W'd	Fresh	Cloudy	45.0	31.0	
30.046		48.0	30.0	18.0	Southwest	Light	Cloudy	48.0	31.0	
30.270		46.0	26.0	20.0	N'd & W'd	Fresh	Clear	55.0	23.0	
30.013		59.81	45.19	14.62				63.97	40.36	3.96

REMARKS.

NOVEMBER, 1838.

Days of the month.	Phases of the moon.	3. A. M.						
		Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
				Dew point.	Difference.	Direction.	Force.	
		Inches.	°	°	°			
Thu. 1	○	30.420	31.0	25.0	6.0	Southward	Light	Clear
Fri. 2		30.064	42.0	29.0	13.0	S'd & W'd	Light	Clear
Sat. 3		30.174	48.0	40.0	8.0	Calm	Calm	Clear
Sun. 4		30.000	50.0	44.0	6.0	Variable	Light	Cloudy
Mon. 5		29.740	58.0	58.0	0.0	Westward	Light	Cloudy
Tues. 6		29.876	40.0	36.0	4.0	Westward	Gale	Clear
Wed. 7		30.226	36.0	29.0	7.0	S'd & W'd	Light	Cloudy
Thu. 8	☾	29.770	65.0	65.0	0.0	S'd & W'd	Squally	Rain
Fri. 9		29.920	36.0	26.0	10.0	N'd & W'd	Moderate	Fair
Sat. 10		30.376	20.0	14.0	6.0	N'd & W'd	Light	Clear
Sun. 11		30.784	19.0	14.0	5.0	N'd & W'd	Light	Clear
Mon 12		30.620	36.0	28.0	8.0	Calm	Calm	Cloudy
Tues. 13		30.240	40.0	37.0	3.0	N'd & W'd	Light	Cloudy
Wed. 14		30.162	44.0	43.0	1.0	Calm	Calm	Foggy
Thu. 15		30.218	57.0	56.0	1.0	N'd & W'd	Calm	Cloudy
Fri. 16		29.982	60.0	59.0	1.0	S'd & W'd	Moderate	Cloudy
Sat. 17	●	30.286	31.0	25.0	6.0	N'd & W'd	Moderate	Clear
Sun. 18		30.300	32.0	25.0	7.0	Calm	Calm	Hazy
Mon. 19		30.082	28.0	20.0	8.0	N'd & W'd	Fresh	Clear
Tues. 20		30.134	19.0	18.0	1.0	Calm	Calm	Clear
Wed. 21		30.272	34.0	30.0	4.0	S'd & W'd	Moderate	Cloudy
Thu. 22		30.128	34.0	25.0	9.0	N'd & W'd	Light	Clear
Fri. 23		30.012	36.0	34.0	2.0	N. N. E.	Light	Clouds
Sat. 24	☽	29.950	43.0	34.0	9.0	N'd & E'd	Moderate	Clear
Sun. 25		30.310	22.0	12.0	10.0	N'd & E'd	Fresh	Cloudy
Mon. 26		30.352	13.0	9.0	4.0	Northwest	Moderate	Clear
Tues. 27		30.222	20.0	16.0	4.0	Calm	Calm	Clear
Wed. 28		30.000	30.0	25.0	5.0	Northwest	Calm	Clear
Thu. 29		30.382	20.0	14.0	6.0	N'd & W'd	Moderate	Clear
Fri. 30		30.316	28.0	16.0	12.0	S'd & W'd	Moderate	Clear
Mean		30.177	35.72	30.28	5.49			

REMARKS.

November 2.—A lunar halo was observed at 0*h.* 15*m.* A. M.; it was obscured by clouds in a few moments. A second halo was remarked at 11*h.* 45*m.* P. M.,; this also disappeared in a few minutes.

November 5.—Commenced blowing strong from W. N. W., at 10*h.* P. M., in squalls.

November 6.—Moderated at sunrise.

November 7.—At 3*h.* 15*m.* A. M., an imperfect halo was formed around the moon, which continued for ten minutes and disappeared; at 4*h.* 40*m.* A. M., a halo was again formed around the moon, with a vertical semidiameter of 21° 50′ 45″ which continued during her culmination and for 20*m.* after; these halos were at no time very distinct, excepting in the segment nearest the horizon, which was well defined.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1838—Continued.

9 A. M.

Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.490	80.0	32.0	25.0	7.0	N'd & W'd	Light	Clear.
30.186	82.0	48.0	35.0	13.0	N'd & W'd	Light	Clear.
30.190	80.0	42.0	37.0	5.0	S'd & W'd	Light	Clear.
29.976		54.0	54.0	0.0	S'd & W'd	Moderate	Rain.
29.748	79.0	54.0	50.0	4.0	Westward	Light	Cloudy.
30.096	71.0	42.0	28.0	14.0	N'd & W'd	Moderate	Clear.
30.298	62.0	44.0	38.0	6.0	Westward	Light	Cloudy.
29.754	68.0	68.0	63.0	5.0	S'd & W'd	Fresh	Cloudy.
30.082	64.0	34.0	20.0	14.0	N'd & W'd	Moderate	Clear.
30 680	60.0	27.0	14.0	13.0	N'd & W'd	Moderate	Clear.
30.852	59.0	34.0	18.0	16.0	N'd & W'd	Light	Clear.
30.550		40.0	32.0	8.0	N'd & W'd	Light	Cloudy.
30.230		50.0	46.0	4.0	S'd & W'd	Light	Cloudy.
30.258		54.0	54.0	0.0	S'd & W'd	Light	Misty.
30.164		58.0	55.0	3.0	Calm	Calm	Hazy.
29.950		63.0	58.0	5.0	S'd & E'd	Fresh	Cloudy.
30,424	72.0	32.0	22.0	10.0	N'd & W'd	Fresh	Clear.
30.212		33.0	33.0	0.0	N'd & W'd	Light	Hail.
30.200	66.0	29.0	21 0	8.0	N'd & W'd	Moderate	Clear.
30.188	62.0	29.0	24.0	5.0	N'd & W'd	Light	Clear.
30.350	78.0	38.0	30.0	8.0	N'd & W'd	Light	Clear.
30.088	43.0	40.0	35.0	5.0	Southward	Light	Cloudy.
30.020	47.0	46.0	42.0	4.0	S'd & W'd	Light	Cloudy.
30.094		42.0	36.0	6.0	Northeast	Light	Cloudy.
30.320		22.0	11.0	11.0	N. N. E.	Moderate	Snow.
30.350	56.0	20.0	15 0	5.0	N. N. W.	Moderate	Clear.
30.140	68.0	26.0	18.0	8.0	S. S. E.	Light	Clear.
30.012	58.0	31.0	28 0	3.0	Calm	Calm	Clear.
30.430	62.0	25 0	18.0	7.0	Northwest	Fresh	Clear.
30.320	57.0	31.0	19.0	12.0	S. & W.	Light	Clear.
30.222	65.38	39.60	32.63	6.97			

REMARKS—Continued.

November 8.—At 0*h*. 30*m*. P. M , the wind shifted suddenly to the N. W., with thunder, lightning, and heavy rain; continued squally till 10*h*. P. M.

November 13.—For observations of the *meteors*, see page 532.

November 16.—The wind shifted to the northward and westward; strong.

November 18.—At 8½ A. M. commenced hailing, and continued to do so until 9½, when it changed to snow; snowed for half an hour, and changed to rain.

November 23.—At 6*h*. 45*m*. P. M. a lunar halo, which continued until 9 P, M.; the lower limb very indistinct.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1838—Continued.

		3 P. M.							
			Thermometer.		Hygrometer.		Wind.		
Days of the month.	Phases of the moon.	Barometer.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.
		Inches	°	°	°	°			
Thu. 1	○	30.288		48.0	24.0	24.0	S'd & W'd	Moderate	Clear
Fri. 2		30.144	77.0	57.0	30.0	27.0	S'd & W'd	Light	Clear
Sat. 3		30.150	80.0	59.0	40.0	19.0	S'd & W'd	Light	Hazy
Sun. 4		29.884		56.0	56.0	0.0	S'd & W'd	Moderate	Rain
Mon. 5		29.626	89.0	63.0	51.0	12.0	Westward	Light	Cloudy
Tues. 6		30.134	57.0	45.0	25.0	20.0	Westward	Light	Cloudy
Wed. 7		30 136		55.0	48.0	7.0	S'd & W'd	Moderate	Cloudy
Thu. 8	☾	29.768		44.0	44.0	0.0	N'd & W'd	Fresh	Rain
Fri. 9		30.134	60.0	34.0	14.0	20.0	N'd & W'd	Fresh	Clear
Sat. 10		30.718	61.0	31.0	15.0	16.0	N'd & W'd	Moderate	Clear
Sun. 11		30.750		42.0	35 0	7.0	S'd & E'd	Light	Cloudy
Mon. 12		30.442	74.0	48.0	36.0	12.0	Westward	Light	Clear
Tues. 13		30.146		55.0	55.0	0.0	S. S. E.	Light	Rain
Wed. 14		30.238		64.0	52.0	12.0	S'd & E'd	Light	Cloudy
Thu. 15		30.100		66.0	58.0	8.0	S'd & E'd	Moderate	Cloudy
Fri. 16		30.042		55.0	50.0	5.0	N'd & W'd	Fresh	Cloudy
Sat. 17	●	30.350	72.0	40.0	24.0	16.0	N'd & W'd	Moderate	Clear
Sun. 18		30.012		34.0	34.0	0.0	N'd & E'd	Light	Rain
Mon. 19		30.208	63.0	31.0	16.0	15.0	N'd & W'd	Light	Clear
Tues. 20		30.128	54.0	40.0	25.0	15.0	W. N. W.	Light	Cloudy
Wed. 21		30.240	66.0	44.0	27.0	17.0	S. & W.	Moderate	Clear
Thu. 22		30.020	73.0	54.0	43.0	11.0	Calm	Calm	Clear
Fri. 23		29.966	79.0	60.0	49.0	11.0	N. & W.	Light	Clear
Sat. 24	☽	30.080	74.0	46.0	31.0	15.0	N. & W.	Moderate	Clear
Sun. 25		30.300		19.0	19.0	0.0	N. N. E.	Moderate	Snow
Mon. 26		30.356	58.0	31.0	22.0	9.0	Northwest	Moderate	Clear
Tues. 27		29.994	67.0	48.0	22.0	26.0	S. & E.	Light	Clear
Wed. 28		30.028		41.0	40.0	1.0	N. & W.	Moderate	Cloudy
Thu. 29		30.386	58.0	36.0	30.0	6.0	N. & W.	Moderate	Clear
Fri. 30		30.232	78.0	46.0	20.0	26.0	N. & W.	Light	Clear
Mean		30.170	62.84	46.40	34.50	11.90			

REMARKS—Continued.

November 25.—Snow fell from 9 A. M., till 4½ P. M., when the wind changed to the northward and westward; after which, the weather was clear and cold. About 8 P. M., an aurora borealis appeared. At its formation, a beautiful arch of pale light spanned the northern sky from northeast by east to northwest, (magnetic,) its altitude being 14°. Above, and concentric with this, was an arch of ruddier light, 3° in width, its color being quite rosy, and its darkest shade towards the west. There were no notable changes till 9 P. M., when the upper arch disappeared entirely in a few minutes. The lower arch retained its original elevation and terminations of its visible extremities. There were no radiating or flashing beams.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1838—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inches.*
30.014	44.0	30.0	14.0	Westward	Fresh	Clear	47.0	31.0	
30.172	50.0	40.0	10.0	Westward	Light	Clear	58.0	33.0	
30.100	50.0	41.0	9.0	S'd & E'd	Light	Cloudy	62.0	42.0	
29.880	60.0	60.0	0.0	S'd & W'd	Light	Rain	59.0	51.0	1.22
29.624	52.0	50.0	2.0	Westward	Light	Rain	68.0	39.0	0.11
30.224	35.0	29.0	6.0	S'd & W'd	Light	Clear	48.0	35.0	
30.050	57.0	55.0	2.0	Southward	Light	Cloudy	65.0	44.0	0.22
29.880	40.0	36.0	4 0	N'd & W'd	Fresh	Cloudy	67.0	31.0	1.46
30.300	28.0	12.0	16.0	N'd & W'd	Fresh	Clear	38 0	19.0	
30.780	23.0	10.0	13.0	Northwest	Light	Clear	35.0	19.0	
30.700	34.0	27.0	7.0	Calm	Calm	Cloudy	46.0	32.0	
30.364	40.0	38.0	2.0	S'd & W'd	Light	Cloudy	49.0	36.0	
30.130	53.0	50.0	3.0	Southward	Moderate	Cloudy	58.0	45.0	
30.240	58.0	56.0	2.0	Eastward	Light	Cloudy	67.0	45.0	0.10
30.082	59.0	58.0	1.0	S'd & Wd	Light	Cloudy	68.0	57.0	
30.210	39 0	29.0	10.0	N. N. W.	Fresh	Clear	68.0	30.0	
30.340	32.0	24.0	8.0	N. & W.	Light	Clear	39.0	29.0	
30.032	34.0	32.0	2.0	N. & W.	Moderate	Cloudy	40.0	28.0	0.30
30.182	22.0	17.0	5.0	Calm	Calm	Clear	33.0	19.0	
30.174	38.0	28.0	10.0	N. & W.	Moderate	Cloudy	41.0	29 0	
30.132	37.0	29.0	8.0	N. & W.	Moderate	Clear	44.0	31.0	
30.020	36.0	35.0	1.0	N. N. E.	Light	Clear	54.0	29.0	
29.960	44.0	35.0	9.0	N. & E.	Moderate	Clear	61.0	35.0	
30.214	34.0	24.0	10.0	Eastward	Moderate	Cloudy	45.0	22.0	
30.344	17.0	9.0	8 0	Northwest	Moderate	Clear	24.0	15 0	
30.320	24.0	18.0	6.0	Northwest	Light	Clear	32.0	13.0	
29.978	38.0	24.0	14.0	Calm	Calm	Cloudy	47.0	18.0	
30.268	26.0	19.0	7.0	Northwest	Fresh	Clear	42.0	22.0	
30.366	30.0	22.0	8.0	Northwest	Moderate	Clear	43.0	20.0	
30.162	27.0	20.0	7.0	Calm	Calm	Clear	47.0	22.0	
30.174	34.37	31.90	2.47				49.80	30.70	3.41

REMARKS—Continued.

the upper portions of the arch being a distinctly defined zone of white light, gradually fading as it approached the horizon, but stars of the third magnitude were visible through any part of it. From 9 to midnight the aurora perceptibly diminished in brilliancy; after which, it was only distinguished as a faint glow to the north.

November 30.—A perfectly formed and very distinct lunar halo, with a vertical semidiameter of 23° 22′ 30″ and a horizontal semidiameter of 22° 28′ 30″—perceptibly elliptical.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1838.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Sat.	1	○	29.990	22.0	21.0	1.0	Calm	Calm	Cloudy
Sun.	2		29.780	37.0	36.0	1.0	Southward	Moderate	Cloudy
Mon.	3		30.100	31.0	23.0	8.0	N. & W.	Fresh	Clear
Tues.	4		30.294	33.0	20.0	13.0	N. & E.	Light	Cloudy
Wed.	5		30.130	34.0	32.0	2.0	Eastward	Light	Foggy
Thu.	6		29.822	41.0	33.0	8.0	N. & W.	Fresh	Cloudy
Fri.	7		29.858	24.0	20.0	4.0	Calm	Calm	Clear
Sat.	8	☾	29.154	34.0	32.0	2.0	S. & W.	Light	Cloudy
Sun.	9		30.122	24.0	14.0	10.0	N. & W.	Fresh	Clear
Mon.	10		30.388	20.0	13.0	7.0	N. & W.	Light	Clear
Tues.	11		30.132	30.0	18.0	12.0	Southward	Moderate	Cloudy
Wed.	12		29.874	42.0	28.0	14.0	S. & E.	Moderate	Clear
Thu.	13		30.426	26.0	13.0	13.0	N. & E.	Moderate	Clear
Fri.	14		30.286	29.0	29.0	0.0	Eastward	Light	Rain
Sat.	15		30.020	30.0	30.0	0.0	Northward	Light	Foggy
Sun.	16	●	30.168	36.0	28.0	8.0	Calm	Calm	Cloudy
Mon.	17		30 328	27.0	26.0	1.0	N. & E.	Light	Cloudy
Tues.	18		29.750	32.0	28.0	4.0	Calm	Calm	Cloudy
Wed.	19		29.900	33.0	25.0	8.0	N. & W.	Light	Cloudy
Thu.	20		29.964	28.0	25.0	3.0	Westward	Moderate	Cloudy
Fri.	21		29.700	30.0	23.0	7.0	Eastward	Light	Cloudy
Sat.	22		29.500	35.0	26 0	9.0	Calm	Calm	Cloudy
Sun.	23	☽	29.510	31.0	24.0	7.0	N. & W.	Light	Clear
Mon.	24		30.230	5.0	Too	low	N. & W.	Strong	Clear
Tues.	25		30.326	7.0	Too	low	Calm	Calm	Clear
Wed.	26		30.068	30.0	22.0	8.0	Calm	Calm	Cloudy
Thu.	27		30.220	20.0	10.0	10.0	Calm	Calm	Cloudy
Fri.	28		30.428	16.0	9.0	7.0	Calm	Calm	Clear
Sat.	29		30.080	19.0	18.0	1.0	N. & E.	Light	Snow
Sun.	30		30 196	8.0	Too	low	Calm	Calm	Clear
Mon.	31		30.470	—3.0	Too	low	Calm	Calm	Clear
	Mean		30.037	26.36	23.18	6.22			

REMARKS.

December 4.—At 11 P. M., a lunar halo, with a vertical semidiameter of 21° 25′ 40″, which continued A. M. of the 5th, when the moon was obscured by a fog.

December 7.—Commenced snowing at 5 A. M., and continued until 8 A. M.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1838—Continued.

9 A. M.

Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
29.928		34.0	34.0	0.0	Calm	Calm	Hazy.
29.770		41.0	36.0	5.0	S. & W.	Moderate	Cloudy.
30.272	42.0	29.0	20.0	9.0	N. & W.	Fresh	Cloudy.
30.296		32.0	32.0	0.0	Calm	Calm	Hail.
30.014		40.0	40.0	0.0	Calm	Calm	Misty.
29.948	48.0	40.0	29.0	11.0	Northward	Moderate	Cloudy.
29 872	40.0	30.0	23.0	7.0	N. & W.	Light	Hazy.
29.676	42.0	36.0	30.0	6.0	Northward	Light	Cloudy.
30.372	58.0	22.0	15.0	7.0	Northwest	Fresh	Clear.
30.390	52.0	21.0	14.0	7.0	Northwest	Light	Clear.
30.130	66.0	34.0	26.0	8.0	S. & W.	Light	Clear.
29.946	82 0	42 0	28.0	14.0	S. & W.	Light	Clear.
30.486	52.0	24.0	12.0	12.0	Southward	Light	Clear.
30.186		34.0	34.0	0 0	Calm	Calm	Rain.
30.084		32.0	32.0	0.0	Calm	Calm	Foggy.
30.270	48.0	40.0	36.0	4.0	N. & E.	Moderate	Hazy.
30.332		31 0	20.0	11.0	Northward	Light	Cloudy.
29.812		34.0	34.0	0.0	Calm	Calm	Hazy.
29.992	53.0	36.0	24.0	12.0	N. & W.	Moderate	Cloudy.
30.080	66.0	27.0	15.0	12.0	N. & W.	Moderate	Clear.
29.742		32.0	23.0	9.0	S. & W.	Light	Cloudy.
29.454		39.0	37.0	2.0	S. & E.	Moderate	Cloudy.
29.710	54.0	23.0	9.0	14.0	N. & W.	Gale	Clear.
30.308	52.0	16.0	5 0	11.0	N. & W.	Fresh	Clear.
30.300	30.0	21.0	13.0	8.0	S. & W.	Moderate	Cloudy.
30.116		32 0	20.0	12.0	N. & W.	Moderate	Cloudy.
30.258		22.0	12.0	10.0	N. & W.	Light	Cloudy.
30.450	35.0	18.0	11.0	7.0	N. & W.	Light	Clear.
29.600		30 0	25.0	5.0	Southward	Light	Cloudy.
30.272	40.0	5.0	Too	low	Calm	Calm	Clear.
30.600	34 0	0.0	Too	low	Calm	Calm	Clear.
30.086	49.67	28.93	23.76	7.00			

REMARKS—Continued.

December 8.—From 11 P. M. until 2 A. M., blew very heavy from the northward and westward.

December 17.—Commenced snowing at 11*h*. 30*m*. A. M.; at 8 P. M. changed to rain,

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1838—Continued.

3 P. M.

Days of the month.		Phases of the moon.	Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Sat.	1	○	29.776		41.0	37.0	4.0	S'd & W'd	Moderate	Cloudy
Sun.	2		29.798	76.0	50.0	33.0	17.0	N. & W.	Light	Clear
Mon.	3		30 252		36.0	18.0	18.0	N. & W.	Light	Cloudy
Tues.	4		30.252		38.0	37.0	1.0	Eastward	Airs	Cloudy
Wed.	5		29.800		43.0	43.0	0.0	Southward	Light	Misty
Thu.	6		29.848		38.0	24.0	14.0	N. & W.	Moderate	Cloudy
Fri.	7		29.780	62.0	41.0	30.0	11.0	S. & W.	Moderate	Clear
Sat.	8	☾	29.716	58.0	44.0	27.0	17.0	N. & W.	Moderate	Clear
Sun.	9		30.310	49.0	28.0	14.0	14.0	N. & W.	Light	Clear
Mon.	10		30.254	35.0	32.0	15.0	17.0	Southward	Moderate	Cloudy
Tues.	11		29.988	68.0	50.0	34.0	16.0	S. & W.	Moderate	Clear
Wed.	12		30.132	60.0	43.0	22.0	21.0	N. & W.	Fresh	Clear
Thu.	13		30.420	63.0	32.0	25.0	7.0	S. & E.	Moderate	Clear
Fri.	14		30.064		40.0	40.0	0.0	Westward	Light	Misty
Sat.	15	●	30.018		44.0	40.0	4.0	Calm	Calm	Cloudy
Sun.	16		30.292	39.0	37.0	36.0	1.0	Eastward	Moderate	Cloudy
Mon.	17		30.186		32.0	30.0	2.0	N. & E.	Light	Snow
Tues.	18		29.800	42.0	36.0	33.0	3.0	Northward	Light	Cloudy
Wed.	19		29.964		35.0	33.0	2.0	Westward	Moderate	Cloudy
Thu.	20		30.076	58.0	30.0	18.0	12.0	N. & W.	Moderate	Clear
Fri.	21		29.672		40.0	22.0	18.0	N. & E.	Light	Cloudy
Sat.	22		29.464	71.0	45.0	38.0	7.0	Southward	Light	Clear
Sun.	23	☽	29.828	44.0	20.0	8.0	12.0	N. & W.	Gale	Clear
Mon.	24		30.330	49.0	20.0	10.0	10.0	N. & W.	Moderate	Clear
Tues.	25		30.284	47.0	34.0	16.0	18 0	N. & W.	Moderate	Clear
Wed.	26		30.142	61.0	32.0	14.0	18.0	N. & W.	Moderate	Clear
Thu.	27		30.186	58.0	26.0	13.0	13.0	N. & W.	Light	Clear
Fri.	28		30.346		28.0	22.0	6.0	Southward	Moderate	Cloudy
Sat.	29		29.570		34.0	27.0	7.0	N. & W.	Light	Cloudy
Sun.	30		30.260	58.0	21.0	9.0	12.0	S. & W.	Light	Clear
Mon.	31		30.636	61.0	24.0	18.0	6.0	Southward	Light	Clear
	Mean		30.011	55.74	35.29	25.35	9.94			

REMARKS—Continued.

December 23.—Gale began at 4 A. M., moderated at sunset, and began again at 11 P. M.

December 24.—Moderated at sunrise.

December 26.—An imperfectly-formed lunar halo, which continued visible the greater part of the night.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1838—Continued.									
9 P. M.							Registering thermometer.		
Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	Rain or snow.
		Dew point.	Difference.	Direction.	Force.				
Inches.	°	°	°				°	°	*Inch's.*
29.784	38.0	30.0	8.0	Calm	Calm	Cloudy	42.5	26.0	
29.920	38.0	23.0	15.0	Northward	Light	Clear	52.0	29.0	
30.278	35.0	20.0	15.0	Calm	Calm	Cloudy	52.0	28.0	
30.238	35.0	32.0	3.0	Eastward	Light	Cloudy	38.5	31.0	
29.750	43.0	37.0	6.0	Calm	Calm	Clear	43.0	31.0	.05
29.886	26.0	20.0	6.0	Calm	Calm	Clear	41.0	19.0	
29.760	34.0	30.0	4.0	Southward	Moderate	Clear	41.0	19.0	
29.950	34.0	20.0	14.0	N. & W.	Fresh	Clear	46.0	28.0	.12
30.368	36.0	15.0	21.0	N. & W.	Moderate	Cloudy	43.0	18.0	
30.170	30.0	18.0	12.0	Southward	Moderate	Cloudy	32.0	22.0	
29.872	43.0	26.0	17.0	S. & W.	Moderate	Clear	50.0	30.0	
30.292	34.0	18.0	16.0	N. & E.	Moderate	Clear	49.0	28.0	
30.382	30.0	20.0	10.0	Eastward	Light	Cloudy	32.0	24.0	
30.000	39.0	39.0	0.0	Calm	Calm	Misty	39.0	29.0	.34
30.104	32.0	32.0	0.0	Calm	Calm	Foggy	43.0	30.0	.04
30.306	29.0	28.0	1.0	Eastward	Light	Cloudy	52.0	27.0	
29.936	34.0	34.0	0.0	Calm	Calm	Rain	35.0	26.0	.60
29.892	26.0	26.0	0.0	Calm	Calm	Foggy	48.0	21.0	
29.964	30.0	27.0	3.0	Westward	Light	Cloudy	37.0	28.0	
29.850	31.0	29.0	2.0	S. & W.	Moderate	Cloudy	32.0	26.0	
29.602	36.0	27.0	9.0	Calm	Calm	Cloudy	[illegible]	27.0	
29.474	42.0	36.0	6.0	Calm	Calm	Cloudy	44.5	32.0	
30.030	15.0	5.0	10.0	N. & W.	Fresh	Clear	32.0	10.0	
30.388	14.0	4.0	10.0	Calm	Calm	Clear	[illegible]	7.0	
30.164	32.0	20.0	12.0	Southward	Fresh	Cloudy	36.0	22.0	
30.214	23.0	9.0	14.0	N. & E.	Moderate	Clear	36.0	19.0	
30.332	18.0	10.0	8.0	N. & W.	Light	Clear	32.0	15.0	
30.116	22.0	22.0	0.0	N. & E.	Light	Snow	38.0	8.0	.55
29.886	23.0	14.0	9.0	N. & W.	Moderate	Clear	39.0	3.0	
30.332	10.0	6.0	4.0	Calm	Calm	Cloudy	22.0	7.0	
30.734	6.0	Too	low	Northward	Light	Clear	24.0	—5.0	
30.063	29.61	22.56	7.83				39.18	21.45	1.70

REMARKS—Continued.

December 28.—Commenced snowing at 7 P. M., and continued until 4*h*. 30*m*. A. M. of the 29th, when the wind veered to the northward and westward; after which, clear and cold.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1839.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Tues.	1		30.824	—3.0	Too	low.	N. N. W.	Light	Clear
Wed.	2		30.698	22.0	18.0	4.0	Calm	Calm	Cloudy
Thu.	3		30.380	35.0	35.0	0.0	Northwest	Light	Rain
Fri.	4		30.268	36.0	36.0	0.0	Eastward	Light	Rain
Sat.	5		30.390	31.0	30.0	1.0	Calm	Calm	Cloudy
Sun.	6		30.524	33.0	28.0	5.0	Calm	Calm	Cloudy
Mon.	7	☾	30.340	24.0	23.0	1.0	Northward	Light	Misty
Tues.	8		29.720	38.0	22.0	16.0	S'd & W'd	Squally	Cloudy
Wed.	9		30.400	24.0	12.0	12.0	Calm	Calm	Clear
Thu.	10		30.238	30.0	28.0	2.0	Calm	Calm	Cloudy
Fri.	11		30.140	37.0	34.0	3.0	Calm	Calm	Cloudy
Sat.	12		30.066	50.0	49.0	1.0	Southward	Light	Cloudy
Sun.	13		30.310	40.0	28.0	12.0	N. N. W.	Fresh	Cloudy
Mon.	14	●	30.082	36.0	32.0	4.0	Southward	Light	Cloudy
Tues.	15		29.960	34.0	34.0	0.0	N'd & E'd	Fresh	Rain
Wed.	16		30.150	20.0	20.0	0.0	N'd & E'd	Moderate	Snow
Thu.	17		30.228	8.0	Too	low.	Northward	Light	Clear
Fri.	18		30.238	26.0	21.0	5.0	Calm	Calm	Cloudy
Sat.	19		30.066	28.0	22.0	6.0	Calm	Calm	Cloudy
Sun.	20		30.220	10.0	Too	low.	Calm	Calm	Clear
Mon.	21	●	29.908	28.0	14.0	14.0	S'd & E'd	Light	Clear
Tues.	22		29.990	14.0	6.0	8.0	Calm	Calm	Clear
Wed.	23		29.478	30.0	24.0	6.0	N. & W.	Moderate	Cloudy
Thu.	24		30.302	6.0	Too	low.	N. & E.	Light	Clear
Fri.	25		30.276	22.0	14.0	8.0	Southward	Light	Cloudy
Sat.	26		29.382	36.0	36.0	0.0	N. & E.	Light	Rain
Sun.	27		29.486	28.0	12.0	16.0	N. & W.	Moderate	Cloudy
Mon.	28	○	29.800	18.0	9.0	9.0	N. & W.	Strong	Clear
Tues.	29		29.848	28.0	20.0	8.0	Calm	Calm	Cloudy
Wed.	30		29.800	32.0	32 0	0.0	Eastward	Light	Misty
Thu.	31		30.082	32.0	26.0	6.0	Northward	Light	Misty
	Mean		30.116	26.87	24.74	5.44			

REMARKS.

January 1.—At 30*m.* A. M., a halo formed around the moon, which continued to the culmination quite distinct. Disappeared entirely about 1*h.* 30*m.*

January 8.—At 4 A. M., the wind shifted to the northward and westward, and commenced blowing very heavy. Moderated at sunrise.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1839—Continued.

9 A. M.

Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.862	52.0	8.0	Too	low	N. & W.	Light	Clear.
30.666		30.0	25.0	5.0	Eastward	Light	Cloudy.
30.390		38.0	38.0	0.0	Calm	Calm	Misty.
30.312		38.0	38.0	0.0	N. & E.	Light	Rain.
30.486		36.0	36.0	0.0	Calm	Calm	Cloudy.
30.500		34.0	28.0	6.0	Calm	Calm	Cloudy.
30.192		34 0	29.0	5.0	Southward	Light	Cloudy.
30.044	74.0	42 0	33.0	9.0	N. & W.	Fresh	Clear.
30.420	62.0	28.0	26.0	2.0	Calm	Calm	Hazy.
30.180	44.0	36.0	29.0	7.0	Calm	Calm	Hazy.
30.192	76.0	46.0	41.0	5.0	Calm	Calm	Cloudy.
30.068	59.0	53.0	48.0	5.0	Calm	Calm	Cloudy.
30.434	68.0	38.0	34.0	4.0	Calm	Calm	Hazy.
30.094		40.0	34.0	6.0	Southward	Light	Cloudy.
29.982		28.0	28.0	0.0	N. & E.	Squally	Fair.
30.190		24.0	8.0	16.0	Northward	Light	Cloudy.
30.306	56.0	18.0	12.0	6.0	Southward	Light	Clear.
30 228		34.0	29.0	5.0	Calm	Calm	Cloudy.
29.982		32.0	30.0	2.0	Calm	Calm	Hazy.
30.256	62.0	18.0	10.0	8.0	Southward	Light	Clear.
29.876		30.0	26.0	4.0	Calm	Calm	Cloudy.
29.972	48.0	22.0	8.0	14.6	Southward	Light	Clear.
29.790	38.0	17.0	13.0	4.0	W. N W.	Gale	Clear.
30.322	50.0	12.0	Too	low	Calm	Calm	Clear.
30.272		33.0	20.0	13.0	S. & W.	Light	Cloudy.
29.350		38.0	38.0	0.0	N. & W.	Strong	Rain.
29.606		30.0	30.0	0.0	N. & W.	Strong	Snow.
29.750	58.0	26.0	13.0	13.0	N. & W.	Gale	Clear.
29.850	66.0	32.0	21.0	11.0	N. & W.	Light	Clear.
29.816		39.0	39.0	0.0	Southward	Light	Misty.
30.250	58.0	36.0	27.0	9.0	Calm	Calm	Cloudy.
30.149	58.07	31.29	27.27	5.48			

REMARKS—Continued.

January 19.—An aurora borealis, which continued from 6 P. M. until 10*h*. 30*m*. P. M. It extended from N. E. to N. N. W., and presented the appearance of a faint light, interrupted with frequent flashes. It was not at any time very distinct.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Tues.	1		30.850		26.0	16.0	10.0	N. & E.	Light	Cloudy
Wed.	2		30.572		36.0	25.0	11.0	Westward	Light	Cloudy
Thu.	3		30.320		40.0	40.0	0.0	Eastward	Light	Rain
Fri.	4		30.324		39.0	37.0	2.0	Northward	Light	Cloudy
Sat.	5		30.454		36.0	35.0	1.0	Northward	Light	Cloudy
Sun.	6		30.476		35.0	34.0	1.0	Southward	Light	Cloudy
Mon.	7	☾	29.944		39.0	30.0	9.0	Southward	Light	Cloudy
Tues.	8		30.168	64.0	42.0	25.0	17.0	N. & W.	Fresh	Clear
Wed.	9		30.368		38.0	36.0	2.0	S'd & E'd	Light	Cloudy
Thu.	10		30.100		46.0	45.0	1.0	Southward	Light	Hazy
Fri.	11		30.126	84.0	62.0	49.0	13.0	Southward	Light	Cloudy
Sat.	12		30.064	78.0	66.0	46.0	20.0	Westward	Fresh	*Clear*
Sun.	13		30.396		48.0	40.0	8.0	Calm	Calm	Cloudy
Mon.	14	●	30.036		37.0	37.0	0.0	Eastward	Light	Rain
Tues.	15		30.020		26.0	26.0	0.0	Northward	Fresh	Hail
Wed.	16		30.190	51.0	26.0	11.0	15.0	N. & W.	Light	Clear
Thu.	17		30.265		30.0	15.0	15.0	Northward	Light	Cloudy
Fri.	18		30.188		40.0	28.0	12.0	Southward	Light	Cloudy
Sat.	19		30.062		36.0	22.0	14.0	N. & W.	Light	Cloudy
Sun.	20		30.158	60.0	27.0	14.0	13.0	N. & E.	Moderate	Clear
Mon.	21	☽	30.068		34.0	26.0	8.0	N. & W.	Moderate	Cloudy
Tues.	22		29.676		34.0	24.0	10.0	Southward	Light	Cloudy
Wed.	23		30.072	40.0	15.0	5.0	10.0	N. & W.	Fresh	Clear
Thu.	24		30.284	50.0	25.0	10.0	15.0	S. & W.	Light	Clear
Fri.	25		30.084		35.0	35.0	0.0	N. & E.	Light	Rain
Sat.	26		29.256		38.0	36.0	2.0	N. & W.	Fresh	Cloudy
Sun.	27		29.614	38.0	36.0	21.0	15.0	N. & W.	Strong	Clear
Mon.	28	○	29.771	60.0	25.0	10.0	15.0	N. & W.	Fresh	Clear
Tues.	29		29.800		46.0	35.0	11.0	Calm	Calm	Cloudy
Wed.	30		29.760		46.0	45.0	1.0	N. & W.	Moderate	Cloudy
Thu.	31		30.226		37.0	36.0	1.0	Westward	Light	Cloudy
Mean			30.119	58.33	36.97	28.87	8.10			

REMARKS—Continued.

January 23.—At 6*h*. 30*m*. A. M., a heavy squall from the westward, and continued to blow with violence until 4 P. M. At 4, fresh. At sunset, moderate.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY,* 1839—Continued.

9 P. M.							Registering thermometer.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.*	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inch's.*
30.784	20.0	17.0	3.0	Northward	Light	Cloudy	28.0	—3.0	
30.512	34.0	34.0	0.0	Calm	Calm	Misty	36.0	22.0	
30.298	38.0	38.0	0.0	Eastward	Light	Rain	40.0	34.0	.60
30.350	32.0	30.0	2.0	Northward	Light	Misty	39.0	31.0	
30.492	32.0	26.0	6.0	Calm	Calm	Cloudy	37.0	32.0	
30.428	27.0	24.0	3 0	Calm	Calm	Clear	35.0	24.0	
29.800	40.0	36.0	4.0	Southward	Moderate	Cloudy	41.0	23.0	
30.302	32.0	23.0	9.0	Calm	Calm	Clear	42.0	24.0	
30.280	33.0	33.0	0.0	N. & E.	Light	Hail	38.0	24.0	.14
30.050	42.0	42.0	0.0	Calm	Calm	Foggy	46.0	30.0	
30.128	52.0	48.0	4.0	Calm	Calm	Clear	62.0	34.0	
30.240	52.0	26.0	26.0	N. N. W.	Fresh	Cloudy	66.0	44.0	.04
30.250	36.0	28.0	8.0	Northward	Light	Clear	48.0	34.0	
30.020	35.0	35.0	0.0	N. & E.	Fresh	Rain	40.0	35.0	.65
30.092	22.0	22.0	0.0	N. & E.	Fresh	Snow	34.0	22.0	1.15
30.190	20.0	8.0	12.0	Northward	Light	Clear	28.0	20.0	.06
30.234	20.0	9.0	11.0	Calm	Calm	Clear	33.0	8.0	
30.140	32.0	26.0	6.0	Calm	Calm	Cloudy	41.0	8.0	
30.168	24.0	8.0	16.0	N. & W.	Fresh	Clear	36.0	24.0	
30.022	26.0	15.0	11.0	S. & E.	Light	Clear	27.0	10.0	
29.920	24.0	15.0	9.0	N. & W.	Moderate	Clear	35.0	19.0	
29.574	34.0	30.0	4.0	N. & W.	Moderate	Cloudy	34.0	14.0	
30.192	10.0	Too	low	N. & W.	Moderate	Clear	30.0	8.0	
30.282	20.0	8.0	12.0	Calm	Calm	Clear	25.0	6.0	
29.936	35.0	35.0	0.0	N. & E.	Light	Rain	35.0	22.0	1.50
29.450	31.0	12.0	19.0	Westward	Strong	Clear	38.0	30.0	.60
29.824	23.0	10.0	13.0	N. & W.	Strong	Clear	30.0	21.0	
29.792	28.0	11.0	17.0	Calm	Calm	Clear	28.0	18.0	
29.766	32.0	21.0	11.0	N. & E.	Light	Clear	35.0	28 0	
29.960	36.0	28.0	8.0	N. & E.	Light	Clear	46.0	32.0	
30.172	34.0	30.0	4.0	Calm	Calm	Cloudy	37.0	32.0	
30.118	31.16	24.27	7.27				37.74	22.90	4.74

REMARKS—Continued.

January 25.—Commenced raining at 1*h*. 30*m*. P. M., and continued until 3 A. M. of the 26th.

FEBRUARY 1839.

Days of the month.		Phases of the moon.	3 A. M.							
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dewpoint.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Fri.	1		30.170	33.0	28.0	5.0	N. & W.	Light	Cloudy
Sat.	2		30.082	28.0	24.0	4.0	Calm	Calm	Cloudy
Sun.	3		30.094	12.0	5.0	7.0	Calm	Calm	Clear
Mon.	4		29.916	28.0	8.0	20.0	S. & W.	Light	Clear
Tues.	5		30.184	28.0	12.0	16.0	Eastward	Light	Clear
Wed.	6	☾	30.426	16.0	Too	low.	N. & W.	Fresh	Clear
Thu.	7		30.514	13.0	Too	low.	N. & W.	Light	Clear
Fri.	8		30.236	36.0	24.0	12.0	S. & W.	Moderate	Clear
Sat.	9		29.788	42 0	42.0	0.0	Southward	Light	Rain
Sun.	10		30.406	20.0	Too	low.	N. & E'd	Light	Clear
Mon.	11		30.238	22.0	10.0	12.0	N. & E'd	Light	Clear
Tues.	12		30 234	28.0	16.0	12.0	N. & W.	Light	Clear
Wed.	13	●	30.400	24.0	15.0	9.0	Southward	Airs	Clear
Thu.	14		30.250	26.0	16.0	10.0	Calm	Calm	Clear
Fri.	15		30.086	29.0	18.0	11.0	Eastward	Light	Clear
Sat.	16		30.176	40.0	36.0	4.0	N. & E.	Light	Cloudy
Sun.	17		30 074	33.0	25.0	8.0	Eastward	Light	Cloudy
Mon.	18		30.048	34.0	32.0	2.0	N. & E.	Moderate	Cloudy
Tues.	19		30.408	25.0	12.0	13.0	N. & W.	Moderate	Clear
Wed.	20	☽							
Thu.	21								
Fri.	22								
Sat.	23								
Sun.	24								
Mon.	25		30.052	42.0	42.0	0.0	Eastward	Light	Rain
Tues.	26		29.940	44.0	38 0	6.0	Eastward	Light	Cloudy
Wed.	27	○	29.526	38.0	38.0	0.0	Southward	Light	Misty
Thu.	28		29.620	33.0	30.0	3.0	Calm	Calm	Cloudy
Mean			30.255	29.30	24.05	7.70			

REMARKS.

February 1.—Commenced snowing at 9*h.* 15*m.* A. M.; ceased at 9*h.* 30*m.* P. M.

February 5.—A lunar halo was formed at 4 A. M., and continued with slight intermission ti daylight. It was not, however, at any time sufficiently distinct to reflect an image.

FEBRUARY, 1839—Continued.

9 A. M.

Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.154		32.0	28 0	4.0	Eastward	Light	Cloudy.
30.122		32.0	29.0	3.0	Calm	Calm	Cloudy.
30.076	58.0	28.0	14.0	14.0	S. & W.	Light	Clear.
29.968	70.0	36.0	16.0	20.0	Southward	Light	Clear.
30.274	55.0	28.0	11.0	17.0	S. & E.	Light	Clear.
30.500	54.0	18.0	Too	low	N. & W.	Fresh	Clear.
30.500	55.0	20.0	11.0	9.0	Calm	Calm	Clear.
30.230		44.0	40.0	4.0	Southward	Moderate	Cloudy.
29.900		44.0	38.0	6.0	N. & E.	Moderate	Cloudy.
30.420	42.0	26.0	14.0	12.0	N. & E.	Light	Cloudy.
30.144	44.0	33.0	30.0	3.0	S. & W.	Light	Cloudy.
30.440	62.0	36.0	27.0	9.0	N. & W.	Light	Clear.
30.390	66.0	30.0	25.0	5.0	Calm	Calm	Clear.
30.250	70.0	32.0	27 0	5.0	Calm	Calm	Clear.
30.076		34.0	34.0	0.0	Calm	Calm	Foggy.
30.200		42.0	40.0	2.0	Calm	Calm	Foggy.
30.032		36.0	36.0	0.0	S. & E.		Misty.
30.132		37.0	30.0	7.0	Northward	Fresh	Cloudy.
30.476	68.0	30.0	16.0	14.0	N. & W.	Fresh	Clear.
30.300	62.0	39.0	27.0	12.0	Calm	Calm	Clear.
30.220		40.0	34.0	6.0	Calm	Calm	Hazy.
30.270	68.0	40.0	36.0	4.0	Northward	Light	Hazy.
30.275	48.0	40.0	36.0	4.0	Calm	Calm	Hazy.
30.290		41.0	38.0	3.0	Eastward	Moderate	Cloudy.
30.000		48.0	48.0	0.0	Calm	Calm	Misty.
29.840		40.0	40.0	0.0	N. & E.	Fresh	Rain.
29.570		46.0	45.0	1.0	S. & W.	Light	Misty.
29.596		41.0	37.0	4.0	Calm	Calm	Cloudy.
30.166	58.71	35.46	28.82	6.22			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Fri.	1		30.088		34.0	34.0	0.0	N. & W.	Light	Snow
Sat.	2		30.086	64.0	34.0	18.0	16.0	Westward	Light	Clear
Sun.	3		29.910	62.0	40.0	20.0	20.0	Southward	Light	Clear
Mon.	4		29.968	73.0	47.0	25.0	22.0	Westward	Light	Clear
Tues.	5		30.304	55.0	31.0	13.0	18.0	N. & W.	Fresh	Clear
Wed.	6	☾	30.434	49.0	24.0	too	low	N. & W.	Strong	Clear
Thu.	7		30.366		36.0	14.0	22.0	S. & W.	Light	Clear
Fri.	8		30.070		50.0	40.0	10.0	Calm	Calm	Cloudy
Sat.	9		30.092		44.0	34.0	10.0	N. & W.	Moderate	Cloudy
Sun.	10		30.320	56.0	32.0	18.0	14.0	S. & E.	Light	Clouds
Mon.	11		30.066		42.0	40.0	2.0	S. & E.	Light	Cloudy
Tues.	12		30.400	62.0	39.0	24.0	15.0	S. & W.	Moderate	Clear
Wed.	13	●	30.266	66.0	40.0	18.0	22.0	Calm	Calm	Clear
Thu.	14		30.160	82.0	47.0	39 0	8.0	Eastward	Airs	Clear
Fri.	15		30.104	76.0	46.0	36.0	10.0	N. & E.	Light	Clear
Sat.	16		30.130	77.0	46.0	30.0	16.0	Calm	Calm	Clear
Sun.	17		29.980		37.0	36.0	1.0	N. & E.	Light	Cloudy
Mon.	18		30 244	54.0	42.0	34.0	8.0	Northwest	Fresh	P'g cl's
Tues.	19		30.450	73.0	39.0	14.0	25.0	Calm	Calm	Clear
Wed.	20	☽	30.206	73.0	48.0	29.0	19.0	S. & E.	Light	Clear
Thu.	21		30.218	76.0	58.0	40.0	18.0	Southward	Light	Hazy
Fri.	22		30.260	74.0	57.0	47.0	10.0	N. & E.	Light	Hazy
Sat.	23		30.232	88.0	66.0	50.0	16.0	Southward	Light	Hazy
Sun.	24		30.310		45.0	43.0	2.0	Eastward	Light	Cloudy
Mon.	25		29.928	82.0	57.0	54.0	3.0	Southward	Light	Clear
Tues.	26		29.650		44.0	44.0	0.0	Northeast	Light	Misty
Wed.	27	○	29.550		52.0	44.0	8.0	Southward	Moderate	Cloudy
Thu.	28		29.268		40.0	40.0	0.0	Eastward	Moderate	Rain
	Mean		30.102	67.88	43.46	32.52	11.67			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1839—Continued.

9 P. M.							Registering thermometers.		
Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	Rain or snow.
		Dew point.	Difference.	Direction.	Force.				
Inches.	°	°	°				°	°	*Inch's.*
30.080	31.0	31.0	0.0	N. & E.	Light	Snow	34.0	31.0	.23
30.092	20.0	10 0	10.0	S. & E.	Light	Clear	34.0	14.0	
29.916	30.0	8.0	22.0	Southward	Light	Clear	40 0	12.0	
30.116	34.0	15.0	19.0	Eastward	Light	Clear	47.0	28.0	
30.316	24.0	8.0	16.0	N. & W.	Fresh	Clear	33.0	24.0	
30.512	20.0	Too	low	N. & W.	Fresh	Clear	24.0	14.0	
30.302	38.0	18.0	20.0	S. & W.	Moderate	Clear	38.0	13.0	
29.846	42.0	42.0	0.0	Southward	Moderate	Rain	50.0	36.0	
30.320	30.0	12.0	18.0	Northward	Moderate	Clear	44.0	30.0	.50
30.274	24.0	12.0	12.0	Southward	Airs	Clear	32.0	20.0	
30.160	30 0	20.0	10.0	N. & W.	Light	Clear	42.0	22.0	
30.400	28.0	18.0	10.0	Southward	Airs	Clear	39.0	25.0	
30.250	34.0	22.0	12.0	Northward	Airs	Clear	40.0	24.0	
30.152	36.0	24 0	12.0	Southward	Airs	Clear	47.0	26.0	
30.162	42.0	38.0	4.0	Northward	Light	Cloudy	46.0	29.0	
30.114	35.0	20.0	15.0	Eastward	Light	Clear	46.0	25.0	
29.984	36.0	36.0	0.0	N. & E.	Light	Snow	38.0	33.0	.52
30.238	30.0	16.0	14.0	Northwest	Moderate	Clear	42.0	29.0	
30.416	32.0	16.0	16.0	Northward	Light	Clear	39.0	25.0	
30.206	35.0	20.0	15.0	Eastward	Light	Clear	49.0	28.0	
30.216	47.0	38.0	9.0	Calm	Calm	Hazy	58.0	36.0	
30.260	43.0	38.0	5.0	S. & E.	Light	Cloudy	57.0	30.0	
30.266	50.0	46.0	4.0	Eastward	Light	Cloudy	66.0	42.0	
30.252	41.0	41.0	0.0	Eastward	Light	Rainy	47.0	42.0	.30
29.938	50.0	48.0	2.0	Eastward	Moderate	Cloudy	57.0	42.0	
29.594	44.0	44.0	0.0	N. & E.	Light	Rain	46.0	40.0	.85
29 600	42.0	39.0	3.0	Westward	Light	Cloudy	54.0	33.0	.08
29.352	36.0	23.0	13.0	Westward	Fresh	Cloudy	41.0	33.0	.20
30.118	35.14	26. 04	9.67				44.29	28.07	2.68

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MHRCH, 1839.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Fri.	1		29.688	28.0	28.0	0.0	Westward	Fresh	Cloudy
Sat.	2		29.900	34.0	22.0	12.0	Southward	Moderate	Cloudy
Sun.	3		29.650	44.0	37.0	7.0	Westward	Strong	Cloudy
Mon.	4		30.410	13.0	Too	low	N'd & W'd	Fresh	Clear
Tues.	5		30.408	18.0	Too	low	S'd & W'd	Light	Clear
Wed.	6		30.384	24.0	Too	low	Northward	Airs	Clear
Thu.	7		30.200	32.0	25.0	7.0	Southward	Light	Clear
Fri.	8	☾	29.650	40.0	38.0	2.0	Eastward	Light	Cloudy
Sat.	9		29.624	43.0	38.0	5.0	Westward	Fresh	Cloudy
Sun.	10		29.884	33.0	27.0	6.0	N'd & W'd	Strong	Clear
Mon.	11		30.070	31.0	31.0	0.0	N'd & W'd	Light	Snow
Tues.	12		30.300	26.0	18.0	8.0	Calm	Calm	Clear
Wed.	13		30.432	26.0	Too	low	Calm	Calm	Clear
Thu.	14		30.072	44.0	38.0	6.0	Southward	Moderate	Cloudy
Fri.	15	●	30.204	27.0	16.0	11.0	N'd & E'd	Light	Clear
Sat.	16		30.246	38.0	30.0	8.0	Southward	Moderate	Cloudy
Sun.	17		30.134	35.0	33.0	2.0	Southward	Light	Clear
Mon.	18		30.060	36.0	32.0	4.0	Eastward	Airs	Clear
Tues.	19		29.804	52.0	43.0	9.0	Southward	Light	Cloudy
Wed.	20		30.200	42.0	40.0	2.0	N'd & E'd	Light	Cloudy
Thu.	21		30.080	35.0	35.0	0.0	Eastward	Light	Rain
Fri.	22	☽	29.848	44.0	40.0	4.0	Northward	Light	Cloudy
Sat	23		29.790	44.0	44.0	0.0	N'd & E'd	Light	Rain
Sun.	24		29.920	39.0	36.0	3.0	Westward	Moderate	Cloudy
Mon.	25		29.792	44.0	34.0	10.0	Westward	Fresh	Cloudy
Tues.	26		30.234	32.0	14.0	18.0	N'd & W'd	Light	Clear
Wed.	27		29.986	47.0	35.0	12.0	Westward	Light	Cloudy
Thu.	28		29.946	56.0	42.0	14.0	Southward	Moderate	Clear
Fri.	29		29.975	59.0	49.0	10.0	Southward	Moderate	Cloudy
Sat.	30	○	30.014	50.0	50.0	0.0	Westward	Moderate	Rain
Sun.	31		30.500	32.0	Too	low	N'd & W'd	Moderate	Clear
	Mean		30.045	37.09	33.65	6.15			

REMARKS.

March 15.—Zodiacal light visible till nearly 8 P. M. The altitude of the pyramid 40°, and base 15° broad.

March 19.—At 2 P. M., thunder and lightning in the east; light showers of rain; wind variable.

March 22.—From 9*h*. 15*m*. to 9*h*. 45*m*. P. M., diverging beams of the aurora borealis were visible in the northern quarter of the heavens. By reference to the journal, it will be seen that the weather was cloudy at the time, and the appearance was consequently very anomalous. At 10 P. M., there remained but a diffused light, extending from N. N. E. to E. N. E.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1839—Continued.

9 A. M.

Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
29.984	70.0	37.0	25.0	12.0	Westward	Fresh	Clear.
29.874	56.0	52.0	35.0	17.0	S'd & E'd	Moderate	Hazy.
29.992	60.0	30.0	12.0	18.0	N'd & W'd	Fresh	Clear.
30.504	50.0	16.0	Too	low	N'd & W'd	Fresh	Clear.
30.344	45.0	25.0	Too	low	S'd & W'd	Moderate	Clear.
30.438	70.0	34.0	30.0	4.0	Calm	Calm	Hazy.
30.112	64.0	45.0	41.0	4.0	S'd & W'd	Light	Hazy.
29.614		43.0	42.0	1.0	Calm	Calm	Hazy.
29.700		51.0	42.0	9.0	Southward	Moderate	Cloudy.
30.070	50.0	30.0	27.0	3.0	Westward	Fresh	Clear.
30.128		34.0	34.0	0.0	N'd & W'd	Light	Cloudy.
30.406		32.0	19.0	13.0	N'd & W'd	Moderate	Clear.
30.440	61.0	36.0	33.0	3.0	Westward	Light	Clear.
30.150		48.0	48.0	0 0	Calm	Calm	Rain.
30.330	72.0	35.0	30.0	5.0	Calm	Calm	Hazy.
30.228	55.0	46.0	36.0	10.0	Southward	Moderate	Hazy.
30.148		42.0	18.0	24.0	S'd & E'd	Light	Cloudy.
30.026	66.0	52.0	46.0	6.0	S'd & W'd	Light	Hazy.
29.838	71.0	63.0	53.0	10.0	S'd & W'd	Light	Hazy.
30.284		39.0	39.0	0.0	N'd & E'd	Light	Rain.
30.006		42.0	42.0	0.0	N'd & E'd	Light	Misty.
29.850	70.0	48.9	47.0	1.0	Westward	Light	Clear.
29.758		49.0	49.0	0.0	N'd & E'd	Light	Rain.
30.038	68.0	43.0	30.0	13.0	N'd & W'd	Light	Clear.
29.950		42.0	42.0	0.0	N'd & W'd	Fresh	Cloudy.
30.252	69.0	45.0	32.0	13.0	Southward	Moderate	Clear.
29.988	83.0	55.0	29.0	26.0	N'd & W'd	Moderate	Clear.
30.050	76.0	63.0	50.0	13.0	Southward	Moderate	Clear.
29.924	84.0	70.0	50.0	20.0	Southward	Moderate	Hazy.
30.168		44.0	44.0	0.0	N'd & W'd	Fresh	Rain.
30.590	60.0	38.0	35.0	3.0	Northward	Fresh	Clear.
30.096	65.00	42.87	36.55	7.86			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1839—Continued.

Days of the month.	Phases of the moon	3 P. M.							
		Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
			Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
		Inches.	°	°	°	°			
Fri. 1		30.066	66.0	43.0	27.0	16.0	Westward	Moderate	Clear
Sat. 2		29.734	82.0	66.0	48.0	18.0	S'd & W'd	Moderate	Clear
Sun. 3		30.114		26 0	15 0	11.0	N'd & W'd	Fresh	Cloudy
Mon 4		30.450		26.0	14.0	12.0	Westward	Moderate	Clear
Tues. 5		30.308	62.0	38.0	Too	low	Westward	Moderate	Clear
Wed. 6		30.350	70.0	48.0	38.0	10.0	Southward	Moderate	Clear
Thu. 7		29.950		60.0	56.0	4.0	Southward	Light	Hazy
Fri. 8	☾	29.500		48.0	45.0	3.0	Westward	Moderate	Cloudy
Sat. 9		29.602		58.0	48.0	10.0	Westward	Light	Cloudy
Sun. 10		30.062	65.0	37.0	27.0	10.0	Westward	Fresh	Clear
Mon. 11		30.140	73.0	44.0	24.0	20 0	N'd & W'd	Moderate	Clear
Tues. 12		30.418	76 0	48.0	26.0	22.0	N d & W'd	Light	Clear
Wed. 13		30.350	68.0	53.0	34.0	19.0	Southward	Moderate	Clear
Thu. 14		30.144		47 0	38.0	9.0	N. N. W.	Light	Cloudy
Fri. 15	●	30.286	74.0	46.0	30.0	16.0	S'd & W'd	Light	Clear
Sat. 16		30 046	78.0	59.0	55 0	4.0	S'd & W'd	Moderate	Clear
Sun. 17		30.208	85.0	64.0	33.0	31.0	Southward	Moderate	Clear
Mon. 18		29.900	91 0	76 0	46.0	30.0	Southward	Moderate	Clear
Tues. 19		29.944	77.0	55 0	53.0	2.0	Northward	Moderate	Clear
Wed. 20		30.230		39.0	38.0	1.0	Eastward	Moderate	Cloudy
Thu. 21		29.872		50.0	50.0	0.0	S'd & W'd	Light	Misty
Fri. 22	☽	29.845		67.0	45 0	22.0	Southward	Light	Cloudy
Sat. 23		29.720		48 0	34.0	14.0	Northward	Fresh	Cloudy
Sun. 24		29.990	80.0	55.0	29.0	26.0	Westward	Moderate	Clear
Mon. 25		30.018	62.0	45.0	22.0	23.0	N'd & W'd	Strong	P'g c'ds
Tues. 26		30.128	77.0	57 0	28 0	29.0	Southward	Moderate	Clear
Wed. 27		29.918	90.0	72.0	57.0	15.0	S'd & W'd	Fresh	Clear
Thu. 28		29.990		78.0	47.0	31.0	S'd & W'd	Fresh	Cloudy
Fri. 29		29.804	82.0	77.0	45.0	32.0	S'd & W'd	Strong	Clear
Sat. 30	○	30.236		46.0	30 0	16.0	N'd & W'd	Strong	Cloudy
Sun. 31		30.558	71.0	51.0	Too	low	Northeast	Fresh	Clear
Mean		30.061	75.21	52.48	37.31	15.72			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1839—Continued.

9 P. M							Registering thermometers.		
Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	Rain or snow.
		Dew point.	Difference.	Direction.	Force.				
Inches.	°	°	°				°	°	*Inch.*
30.000	36.0	26.0	10.0	S'd & W'd	Moderate	Clear	44.0	28.0	
29.698	55.0	43.0	12.0	S'd & E'd	Fresh	Clear	66.0	32 0	
30.286	18 0	Too	low	N'd & W'd	Fresh	Clear	44.0	15.0	
30 416	22 0	Too	low	N'd & W'd	Light	Clear	31.0	15.0	
30.320	30.0	23.0	7.0	Westward	Light	Clear	38.0	18.0	
							48.0	24 0	
29.890	43.0	42.0	1.0	Southward	Light	Hazy	60.0	32.0	
29.572	41.0	38.0	3.0	Westward	Moderate	Clear	55 0	39.0	
29.790	45.0	40 0	5.0	Westward	Fresh	Clear	61.0	32.0	
30.060	32.0	25 0	7.0	Westward	Light	Cloudy	40 0	28 0	
30.236	28 0	16.0	12.0	Calm	Calm	Clear	44.0	27.0	0.07
30.406	34.0	14.0	20.0	N'd & E'd	Light	Clear	48 0	24.0	
30.260	40.0	33.0	7.0	Southward	Light	Clear	54.0	24.0	
30.202	41.0	25 0	16.0	Calm	Calm	Clear	47.0	30.0	0.18
30.250	42.0	32.0	10.0	S'd & W'd	Moderate	Hazy	48.0	27.0	
30.076	45.0	42.0	3.0	Calm	Calm	Clear	61.0	35 0	
30 090	50 0	36.0	14.0	S'd & E'd	Light	Cloudy	64.0	34.0	
29 798	56.0	43.0	13.0	Southward	Light	Cloudy	76 0	52 0	0.06
30.150	46.0	40.0	6.9	N'd & W'd	Moderate	Cloudy	73.0	46.0	
30 194	35.0	35.0	0.0	Eastward	Light	Rain	42.0	35.0	0.25
29.784	47.0	47 0	0.0	N'd & E'd	Light	Misty	51.0	35 0	
29.816	52.0	50.0	2.0	Eastward	Light	Cloudy	67.0	44 0	
29.818	37.0	36.0	1.0	Northward	Airs	Hazy	49.0	37.0	0.09
29 900	45.0	30.0	15.0	Southward	Light	Clear	58.0	36.0	
30 200	37.0	18.0	19.0	N'd & W'd	Moderate	Clear	45.0	34.6	
30 028	46.0	33.0	13.0	Southward	Moderate	Clear	60.0	30.0	
29 918	59.0	40.0	19.0	Southward	Moderate	Clear	72.0	47.0	
30 000	60.0	53.0	7.0	S'd & E'd	Moderate	Clear	79.0	47.0	
29 888	59.0	59.0	0.0	Westward	Fresh	Rain	77.0	59 0	0.34
30.428	38 0	Too	low	N. N. W.	Fresh	Clear	59.0	38 0	
30.500	39.0	32.0	7.0	Northward	Light	Clear	60.0	33.0	
30.066	41.60	34.57	8.48				55.52	33.45	0.90

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1839.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Mon.	1		30.412	36.0	29.0	7.0	N'd & W'd	Fresh	Clear
Tues.	2		30.080	45.0	33.0	12.0	S'd & E'd	Airs	Cloudy
Wed.	3		30.150	48.0	30.0	18.0	Northeast	Moderate	Cloudy
Thu.	4		30.250	53.0	40.0	13.0	Northeast	Light	Cloudy
Fri.	5		30.280	47.0	35.0	12.0	Calm	Calm	Clear
Sat.	6		30.250	48.0	44.0	4.0	Southward	Light	Clear
Sun.	7	☾	30.180	54.0	43.0	11.0	Northward	Light	Clear
Mon.	8		29.944	57.0	48.0	9.0	N'd & E'd	Fresh	Cloudy
Tues.	9		30.136	44.0	28.0	16.0	N'd & E'd	Moderate	Clear
Wed.	10		30.210	43.0	30.0	13.0	S'd & E'd	Light	Clear
Thu.	11		30.050	55.0	47.0	8.0	S. S. W.	Moderate	Cloudy
Fri.	12		29.718	62.0	62.0	0.0	S. S. W.	Fresh	Rain
Sat	13		29.650	50.0	50.0	0.0	N'd & W'd	Fresh	Rain
Sun.	14	●	29.942	30.0	19.0	11.0	N'd & W'd	Moderate	Clear
Mon.	15		30.000	40.0	30.0	10.0	N'd & W'd	Fresh	Clear
Tues.	16		29.824	44.0	30.0	14.0	Calm	Calm	Clear
Wed.	17		29.472	47.0	43.0	4.0	Southward	Light	Cloudy
Thu.	18		29.714	39.0	30.0	9.0	N. N. W.	Fresh	Clear
Fri.	19		29.960	41.0	35.0	6.0	Northward	Light	Clear
Sat	20		29.920	47.0	38.0	9.0	S'd & W'd	Light	Hazy
Sun.	21	☽	29.986	45.0	26.0	19.0	Northeast	Moderate	Clear
Mon.	22		30.280	42.0	33.0	9.0	S'd & E'd	Airs	Clear
Tues.	23		30.332	38.0	18.0	20.0	S'd & E'd	Airs	Clear
Wed.	24		30.320	54.0	50.0	4.0	Southward	Airs	Hazy
Thu.	25		30.080	58.0	55.0	3.0	Westward	Airs	Cloudy
Fri.	26		30.120	53.0	28.0	25.0	N'd & W'd	Moderate	Clear
Sat.	27		30.100	44.0	42.0	2.0	Southwest	Light	Clear
Sun.	28	○	29.920	56.0	48.0	8.0	Southward	Airs	Hazy
Mon.	29		29.964	64.0	49.0	15.0	Southward	Airs	Cloudy
Tues.	30		30.050	50.0	50.0	0.0	Eastward	Light	Rain
Mean			30.043	48.13	38.10	10.03			

REMARKS.

April 24.—At sunset, lightning to the northward. At 9 P. M., squally appearances in the same quarter, with lightning and thunder at intervals, the wind being from the southward and eastward. Showers of rain during the night.

April 30.—At 3*h*. 15*m*. P. M., the wind hauled to the northward, accompanied with heavy rain, and blowing in strong gusts. Lightning and thunder. At 5 P. M., weather became moderate, with occasional showers of rain.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1839—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.300	69.0	44.0	20.0	24.0	Northeast	Moderate	Clear.
30.078	76.0	58.0	32.0	26.0	E. N. E	Moderate	Clear.
30.270	57.0	51.0	33.0	18.0	Northward	Light	Cloudy.
30.278		56 0	55.0	1 0	E. N. E.	Light	Cloudy.
30.260	72 0	58.0	56.0	2.0	Southwest	Light	Hazy.
30 290	83.0	55.0	51.0	4.0	N'd & E'd	Light	Hazy.
30.102	77 0	67.0	49.0	18.0	Southward	Moderate	Hazy.
30.144	63.0	54.0	28.0	26.0	Northeast	Moderate	Clear.
30.218	73 0	49.0	27.0	22.0	Eastward	Moderate	Clear.
30.216	67.0	57.0	46.0	11.0	Southward	Moderate	Hazy.
30.040	80.0	68.0	55 0	13 0	Southwest	Fresh	Clear.
29 700		64.0	58.0	6.0	Southward	Moderate	Cloudy.
29.704		46.0	46.0	0.0	Northward	Stormy	Rain.
29.950		46.0	30.0	16 0	Northwest	Strong	Cloudy.
29.980	80.0	48.0	35.0	13.0	Northward	Fresh	Clear.
29.800	97.0	57.0	49.0	8.0	Northward	Airs	Clear.
29.506		49.0	35.0	14.0	W. N. W.	Gale	Cloudy.
29.840	73.0	43 0	41.0	2.0	N'd & W'd	Moderate	Clear.
30.002	73.0	53.0	38.0	15 0	Westward	Moderate	Clear.
29.900	83.0	66.0	42.0	24 0	Westward	Airs	Hazy.
30.150	70.0	48.0	30.0	18.0	N'd & E'd	Fresh	Clear.
30.330	72.0	52.0	44.0	8.0	Southwest	Moderate	Hazy.
30.350	74.0	57 0	48.0	9.0	Southwest	Moderate	Hazy.
30.208	89.0	69.0	52.0	17.0	Southward	Fresh	Clear.
30.082	84.0	69.0	55.0	14.0	Westward	Moderate	Hazy.
30.180	80.0	60.0	42.0	18.0	Northwest	Moderate	Clear.
30.110	101.0	72.0	45.0	27.0	Southward	Airs	Clear.
29.918	84 0	76.0	58.0	18.0	Southward	Light	Hazy.
30.112	72.0	62.0	48.0	14.0	Eastward	Moderate	Hazy.
30.020		57.0	57.0	0.0	N'd & E'd	Light	Hazy.
30.068	73.29	57.03	43.33	13.70			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		W
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches	°	°	°	°			
Mon.	1		30.120		62.0	37.0	25.0	Eastward	Moderate	Clea
Tues.	2		30.088	82.0	65.0	38.0	27.0	Northeast	Moderate	Clea
Wed.	3		30.238	74.0	68.0	35.0	33.0	Northeast	Moderate	
Thu.	4		30.298	96.0	72.0	55.0	17.0	Calm	Calm	Clea
Fri.	5		30.264	99.0	78.0	46.0	32.0	Southwest	Light	Clea
Sat.	6		30.250	94.0	75.0	44.0	31.0	Southward	Light	Clea
Sun.	7	☾	29.986	90.0	80.0	47.0	33.0	Southward	Fresh	Haz
Mon.	8		30.128	86.0	63.0	26.0	37.0	Northeast	Moderate	Clea
Tues.	9		30.220	80.0	62.0	34.0	28.0	Eastward	Light	Clea
Wed.	10		30.150	74.0	68.0	45.0	23.0	Southward	Fresh	Haz
Thu.	11		29.972		76.0	62.0	14.0	Southward	Fresh	Clou
Fri.	12		29.638		62.0	54.0	8.0	Southward	Fresh	Clou
Sat.	13		29.804		47.0	44.0	3.0	Northward	Fresh	Clou
Sun.	14	●	29.950		44.0	30.0	14.0	Northward	Fresh	Clou
Mon.	15		29.872	83.0	62.0	40.0	22.0	Northward	Moderate	Clea
Tues.	16		29.558	84.0	67.0	42.0	25.0	Southward	Fresh	Clea
Wed.	17		29.578	71.0	54.0	26.0	28.0	Northwest	Fresh	P'g
Thu.	18		29.842	75.0	54.0	31.0	23.0	Northwest	Fresh	Clea
Fri.	19		29.986	88.0	68.0	44.0	24.0	Westward	Light	Clea
Sat.	20		29.780	94.0	73.0	33.0	40.0	Westward	Light	Clea
Sun.	21	☽	30.170	84.0	58.0	37.0	21.0	Eastward	Light	Clea
Mon.	22		30.336	80.0	64.0	30.0	34.0	S. & W.	Moderate	Clea
Tues.	23		30.324	86.0	66.0	40.0	26.0	S. & W.	Moderate	Clea
Wed.	24		30.200	88.0	80.0	59.0	21.0	Southward	Fresh	Haz
Thu.	25		30.076	90.0	72.0	44.0	28.0	N. & W.	Fresh	Clea
Fri.	26		30.140	94.0	73.0	40.0	33.0	N. & W.	Fresh	Clea
Sat.	27		29.970	94.0	82.0	50.0	32.0	S. & W.	Moderate	Haz
Sun.	28	○	29.932	87.0	85.0	54.0	31.0	Westward	Fresh	Haz
Mon.	29		30.120		71.0	50.0	21.0	Eastward	Light	Clo
Tues.	30		29.900		79.0	60.0	19.0	Westward	Light	Clo
	Mean		30.063	85.78	67.53	42.57	25.10			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1839—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inches.*
30.100	45.0	33.0	12.0	Calm	Calm	Clear	62.0	36.0	
30.170	53.0	30.0	23.0	N. & E.	Moderate	Clear	65.0	42.0	
30.250	54.0	39.0	15.0	S. & E.	Moderate	Cloudy	73.0	47.0	
30.290	54.0	40 0	14.0	Northward	Airs	Clear	74.0	49.0	
30.226	57.0	44.0	13.0	Southwest	Airs	Clear	78.0	42.0	
30.210	55.0	48.0	7.0	Northward	Airs	Clear	83.0	47.0	
29.950	64.0	38.0	26.0	Southward	Moderate	Hazy	82 0	54.0	
30.120	46.0	33.0	13 0	Northeast	Airs	Clear	68.0	45.0	
30.210	51.0	40.0	11.0	Eastward	Airs	Clear	72.0	39.0	
30.100	56.0	50.0	6.0	Southward	Light	Hazy	68.0	43.0	
29 936	62.0	62.0	0.0	Southward	Moderate	Rain	76.0	55.0	1.45
29.602	57.0	50.0	7.0	N. & W.	Fresh	Cloudy	67.0	57.0	
29.932	44.0	19.0	25.0	Calm	Calm	Clear	49.0	34.0	0.41
29.972	41.0	40.0	1.0	Calm	Calm	Clear	61.0	41.0	
29.824	51.0	40.0	11.0	Northward	Light	Clear	73.0	41.0	
29.504	50.0	50.0	0.0	Southward	Moderate	Rain	68.0	44.0	0.18
29.714	45.0	24.0	21.0	Westward	Fresh	Pass'g cl'ds	72.0	37.0	
29.914	48.0	31.0	17.0	N. & W.	Fresh	Clear	73.0	36.0	
29.962	54.0	38.0	16.0	S. & W.	Light	Clear	73.0	40.0	
29.772	59.0	45 0	14.0	Southward	Moderate	Cloudy	74.0	44.0	
30.230	41.0	35.0	6.0	Calm	Calm	Clear	73.0	41.0	
30.340	48.0	26 0	22.0	S. & W.	Moderate	Clear	65.0	38.0	
30.300	56.0	50.0	6.0	Southward	Light	Hazy	75.0	39.0	
30.112	63.0	58.0	5.0	S. & E.	Moderate	Pass'g cl'ds	89.0	51.0	0.07
30.090	62.0	41.0	21.0	Northward	Fresh	Clear	73.0	54.0	
30.134	51.0	38.0	13.0	Westward	Light	Clear	75.0	51.0	
29.950	60.0	46.0	14.0	Westward	Airs	Hazy	91.0	44.0	
29.950	68.0	48.0	20.0	Southward	Light	Hazy	87.0	56.0	
30.090	57.0	48.0	9.0	Eastward	Light	Hazy	72.0	57.0	
29.900	62.0	58.0	4.0	Northward	Light	Cloudy	90.0	41.0	0.55
30.028	53.80	41.40	12.40				73.33	44.83	2.66

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1839.

Days of the month.		Phases of the moon.	8 A. M.						
					Hygrometer.		Wind.		
			Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.
			Inches.	°	°	°			
Wed.	1		29.900	60.0	52.0	8.0	Northward	Airs	Clou
Thu.	2		29.828	65.0	48.0	17.0	S. & W	Moderate	Clou
Fri.	3		29.672	68.0	58.0	10.0	W. S. W.	Strong	Clou
Sat.	4		30.270	43.0	31.0	12.0	N. & E.	Light	Clear
Sun.	5		30 220	47.0	22.0	25.0	S. & W.	Moderate	Clear
Mon.	6	☾	30.188	60.0	40.0	20.0	Southeast	Airs	Clear
Tues.	7		30.170	53.0	43.0	10.0	Southward	Airs	Clear
Wed.	8		30.204	55.0	50.0	5.0	Eastward	Moderate	Cloud
Thu.	9		30.030	69.0	64.0	5 0	Southwest	Moderate	Cloud
Fri.	10		30.030	64.0	56.0	8.0	Northward	Fresh	Cloud
Sat.	11		30.160	40.0	21.0	19.0	N'd & E'd	Moderate	Cloud
Sun.	12		30.134	50.0	42.0	8.0	N'd & E'd	Light	Clear
Mon.	13	●	30.000	53.0	53.0	0.0	Calm		Rain
Tues.	14		29.716	57.0	57.0	0.0	Northward	Fresh	Rain
Wed.	15		29.881	54.0	54.0	0 0	Northward		Clear
Thu.	16		29.900	62.0	55.0	7.0	Calm		Clear
Fri.	17								
Sat.	18		30.000	64.0	64.0	0.0	Northeast	Airs	Rain
Sun.	19		30.150	56.0	48 0	8.0	S. & W.	Light	Clear
Mon.	20	☾	30.100	58.0	49.0	9 0	S. & W.	Light	Clear
Tues.	21		29.948	68.0	56.0	12.0	Westward	Light	Clear
Wed.	22		29 900	65.0	60.0	5.0	S. & W.	Light	Clear
Thu.	23		30.030	56.0	54.0	2.0	E. N. E.	Fresh	Cloud
Fri.	24		30.134	60.0	60.0	0.0	E. N. E.	Light	Mist
Sat.	25		30.000	71.0	65 0	6.0	Westward	Light	Clou
Sun.	26		29.980	68.0	64.0	4.0	Westward	Airs	Clear
Mon.	27		29.826	66.0	65.0	1.0	Southward	Airs	Clo
Tues.	28	○	29.630	70.0	68 0	2 0	Westward	Light	Clou
Wed.	29		29.690	51.0	45.0	6.0	S. & W.	Moderate	Clear
Thu.	30		29.876	55.0	46.0	9.0	Northwest	Moderate	Clear
Fri.	31		29.910	53.0	49.0	4.0	Calm	Calm	Cloud
Means			29.980	58.70	51.30	7.40			

REMARKS.

May 1.—At 8 P. M., thunder and lightning, with heavy rain.

May 2.—At 7 P. M., raining; at 9 o'clock, clear, stars unusually brilliant near the zen low cloud banks near the horizon, and frequent flashes of lightning in every quarter of th heavens; at 2 A. M. of 3d, wind increased to a gale from W. S. W.

May 24.—At 9 P. M., vivid lightning in the west.

May 28.—At 6*h*. 15*m*., a violent squall from northwest.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1839—Continued.

9 A. M.

	Thermometers.		Hygrometer.		Wind.		
Barometer.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.
Inches.	°	°	°	°			
29.922		68.0	68.0	0.0	N. & E.	Light	Rain.
29 872	80 0	74.0	70.0	4.0	Southeast	Light	Hazy.
29.850	95.0	64.0	50.0	14.0	Westward	Fresh	Clear.
30.290	80.0	49.0	26.0	23.0	Northwest	Fresh	Clear.
30.180	78.0	55.0	45.0	10.0	Southwest	Fresh	Clear.
30.270	86.0	62.0	38.0	24.0	Northward	Light	Clear.
30.184	96.0	64.0	55.0	9.0	Westward	Light	Hazy.
30.200		64.0	55.0	9.0	Calm	Calm	Cloudy.
30.050		80.0	58.0	22.0	Calm	Calm	Cloudy.
30.164		63.5	49.0	14.5	Northeast	Gale	Cloudy.
30.160	79.5	62 0	42.0	20.0	Northeast	Moderate	Clear.
30.150	94.0	65.0	39.0	26.0	Southward	Light	Clear.
29.930		65.5	65.5	0.0	Southeast	Light	Cloudy.
29.814	87.0	60.0	45.0	15.0	Northwest	Moderate	Clear.
30.000	95.0	76.0	58.0	18.0	Southward	Light	Clear.
29.936	95.0	70.5	64.0	6.5	Westward	Light	Clear.
29.988	92.0	68.5	54.0	14.5	Northeast	Light	Hazy.
30.120		63.0	58.0	5.0	Northward	Light	Cloudy.
30.200	91.5	66.5	57.0	9.5	Calm	Calm	Clear.
30.066	80.0	69.0	64.0	5.0	Calm	Calm	Hazy.
29.970	99.0	76.0	62.0	18.0	Westward	Light	Clear.
29 888	95.0	80.0	64.0	16.0	W. S. W.	Light	Clear.
30 100		66.0	66.0	0.0	Eastward	Moderate	Cloudy.
30.150	78.0	68.0	58.0	10.0	Westward	Light	Cloudy.
29.982		86 0	60.0	26.0	Eastward	Light	Cloudy.
29.964		74.5	59.0	15.5	Northeast	Light	Clear.
29.780	90.0	75.5	65.0	10.5	S. & W.	Fresh	Clear.
29.632	80.0	70.0	52.0	18.0	N. & W.	Moderate	Clear.
29.748		59.0	45.0	14.0	N. & W.	Moderate	Clear.
29 910	87.0	61.0	43.0	18.0	N. & W.	Moderate	Clear.
29.936		66.0	50.0	16.0	North	Light	Cloudy.
30.013	92.90	68.11	56.60	11.61			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°	°		
Wed.	1		29.878	81.0	74.0	50.0	24.0	Northward	Light	P'g cl'ds
Thu.	2		29.826	87.0	76.0	58.0	18.0	Southwest	Moderate	P'g cl'ds
Fri.	3		29.870	76.0	60.0	49.0	11.0	Westward	Fresh	Clear
Sat.	4		30.296	80.0	59.0	33.0	26.0	Westward	Light	Clear
Sun.	5		30.000	80.0	69.0	46.0	23.0	Southward	Fresh	Clear
Mon.	6	☾	30.220	90.0	70.0	45.0	25.0	Southward	Light	Clear
Tues.	7		30.136	100.0	83.0	46.0	37.0	S. S. W.	Light	Clear
Wed.	8		30.102		71.0	60.0	11.0	S. S. W.	Light	Cloudy
Thu.	9		30.050		88.0	63.0	25.0	Southward	Fresh	Cloudy
Fri.	10		30.166		59.0	59.0	0.0	E. N. E.	Gale	Rain
Sat.	11		30.154	74.0	65.0	37.0	28.0	Eastward	Light	Hazy
Sun.	12		30.100	89.0	74.0	39.0	35.0	Westward	Moderate	Clear
Mon.	13	●	29.788		67.0	64.0	3.0	S. S. E.	Moderate	Cloudy
Tues.	14		29.814	88.0	70.0	48.0	22.0	Westward	Moderate	Clear
Wed.	15		29.958	96.0	79.0	58.0	21.0	Southward	Moderate	Clear
Thu.	16		29.948	104.0	74.5	60.0	14.5	Southward	Light	Clear
Fri.	17		29.988		74.0	60.0	14.0	Calm	Calm	Cloudy
Sat.	18		30.120	94.0	72.0	55.0	17.0	N & E.	Light	Clear
Sun	19		30.188	97.0	71.0	44.0	27.0	W. S. W.	Moderate	Clear
Mon.	20	☽	29.988	97.0	77.0	47.0	30.0	Westward	Moderate	Clear
Tues.	21		29.900	105.0	90.0	60.0	30.0	Westward	Airs	Hazy
Wed.	22		29.898	100.0	84.0	62.0	22.0	S. & W.	Light	Hazy
Thu.	23		30.134		64.5	64.5	0.0	Northeast	Moderate	Mist
Fri.	24		30.050	100.0	85.0	65.0	20.0	Westward	Moderate	Clear
Sat.	25		29.968	108.0	83.0	64.0	19.0	S. & W.	Moderate	Clear
Sun.	26		29.950	100.0	80.0	58.0	22.0	S. & W.	Moderate	Clear
Mon.	27		29.700	.	79.5	69.0	10.5	Westward	Strong	Cloudy
Tues.	28	○	29.610	80.5	77.0	56.0	21.0	Northward	Light	Cloudy
Wed.	29		29.750	83.5	65.0	43.0	22.0	Northwest	Moderate	Cloudy
Thu.	30		29.910		68.0	45.0	23.0	Westward	Moderate	Cloudy
Fri.	31		29.920	80.0	73.0	55.0	18.0	Westward	Light	Cloudy
Means			29.977	90.87	73.60	52.98	20.62			

REMARKS

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 1839—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inches.*
29.836	68.0	68.0	0.0	Eastward	Airs	Rain	77.0	56.0	0.150
29.750	71 0	65.0	6.0	Southwest	Fresh	P'g cl'ds	84.0	60.0	0.020
30.100	50.0	44.0	6.0	Northwest	Fresh	Clear	80.0	50.0	
30.250	50.0	28.0	22.0	Southward	Light	Clear	66 0	37.0	
30.000	62.0	50.0	12.0	Southward	Light	Clear	79.0	44.0	
30.180	61.0	40.0	21.0	Calm	Calm	Clear	76.0	46.0	
30.176	64.0	62.0	2.0	E. N. E.	Fresh	Cloudy	88.0	44.0	
30.072	70.0	64.0	6.0	Southward	Light	Hazy	85.0	55.0	
30.050	64 0	62.0	2.0	Southward	Light	Cloudy	96.0	48.0	
30.160	50.0	38.0	12.0	Northward	Light	Clear	64.0	50.0	
30.132	53.0	40.0	13.0	Calm	Calm	Clear	76.0	37.0	
30.070	53.0	41.0	12.0	Calm	Calm	Clear	89.0	38.0	
29.718	64.0	64.0	0.0	S. & E.	Moderate	Rain	67.0	52.0	0.350
	60.0	51.0	9.0	Northward	Light	Clear	80.0	54.0	0 770
29.920	66.0	58.0	8.0	N. & W.	Airs	Clear	79.0	48.0	
29.950	67.0	58.0	9.0	E. N. E.	Moderate	Clear	75 0	61.0	
29.972	65.0	65.0	0.0	Calm	Calm	Rain	74.0		0.100
30.150	62.0	58.0	4.0	Eastward	Light	Clear	73 0	62.0	
30.132	65.0	49.0	16.0	S. & W.	Light	Clear	88.0	48.0	
29.962	73.0	65.0	8.0	Southward	Airs	Clear	89 0	56.0	
29.890	68.0	68.0	0.0	Southward	Moderate	Rain	95.0	68.0	
29.960	66.0	61.0	5.0	N. & E.	Moderate	Clouds	85.0	60.0	
30 134	62.0	62.0	0 0	N. & E.	Moderate	Mist	66.0	56.0	
30.050	72.0	68.0	4.0	Westward	Light	Clear	86.0	59 0	0.060
29.924	73.0	71.0	2.0	Calm	Calm	Cloudy	86.0	68.0	0.110
29.868	75.0	75.0	0.0	Southeast	Light	Rain	80.0	64 0	
29.690	66.0	66.0	0 0	S. & W.	Fresh	Rain	79 0	63.0	0.300
29.630	60.0	54.0	6.0	N. N. W.	Moderate	Cloudy	78.0	68.0	0.700
29 876	58.5	46.0	12.5	N. N. W.	Moderate	Clear	65.0	51.0	0.010
29.910	60.0	60.0	0.0	Westward	Light	Rain	78.0	40.0	
29.908	58 0	52.0	6.0	Northward	Light	Clear	76.0	50.0	1.100
29.984	61.43	56.55	4.88				79.04	52.74	3.670

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1839.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Sat.	1		29.864	50.0	44.0	6.0	S. & W.	Airs	Clear
Sun.	2		29.850	51.0	46.0	5.0	N. & W.	Airs	Cloudy
Mon.	3		29.800	52.0	48.0	4.0	Eastward	Airs	Clear
Tues.	4	☾	29.850	56.0	50.0	6.0	Eastward	Airs	Cloudy
Wed.	5		29.850	54.0	54.0	0.0	N. & E.	Fresh	Rain
Thu.	6		30.010	56.0	52.0	4.0	N. & W.	Light	Clear
Fri.	7		30.192	49.0	42.0	7.0	Calm	Calm	Clear
Sat.	8		30.202	58.0	50.0	8.0	S. & W.	Light	Clear
Sun.	9		30.044	65.0	54.0	11.0	S. & E'd	Light	Clear
Mon.	10		29.980	63.0	59.0	4.0	N. & W.	Light	Clear
Tues.	11	●	29.982	62.0	49.0	13.0	S. & E.	Light	L't clouds
Wed.	12		29.980	67.0	62.0	5.0	N. & E.	Light	Cloudy
Thu.	13		30.024	70.0	64.0	6.0	Eastward	Light	L't clouds
Fri.	14		29.920	65.0	65.0	0.0	N. & E.	Moderate	Rain
Sat.	15		29.990	60.0	55.0	5.0	N. & W.	Light	Cloudy
Sun.	16		29.950	60.0	50.0	10.0	N. & W.	Fresh	Clear
Mon.	17		30.064	56.0	42.0	14.0	N. & W.	Moderate	Hazy
Tues.	18	☽	30.000	69.0			Southward	Moderate	Hazy
Wed.	19		29.880	62.0	50.0	12.0	N. & W.	Moderate	Hazy
Thu.	20		30.000	59.0	57.0	2.0	Calm	Calm	Hazy
Fri.	21		29.872	68.0	66.0	2.0	Calm	Calm	Clear
Sat.	22		29.708	75.0	69.0	6.0	Westward	Light	Cloudy
Sun.	23		29.930	59.0	49.0	10.0	N. by W.	Light	Clear
Mon.	24		30.050	65.0	55.0	10.0	N. & W.	Light	Cloudy
Tues.	25		30.076	60.0	58.0	2.0	N. & E.	Moderate	Cloudy
Wed.	26	○	30.170	66.0	65.0	1.0	N. & E.	Airs	L't clouds
Thu.	27		30.110	63.0	56.0	7.0	S. & W.	Moderate	L't clouds
Fri	28		29.810	70.0	66.0	4.0	Calm	Calm	Pass'g cl'ds
Sat.	29		29.918	63.0	56.0	7.0	N. & W.	Light	Clear
Sun.	30		30.120	61.0	57.0	4.0	Northward	Airs	Clear
	Mean		29.970	61.13	54.83	6.03			

REMARKS.

June 5.—At 6*h*. P. M., during rain shower, a supplementary bow was formed, 11° 18′ 30″ distant from the primary rainbow.

June 7.—From 10*h*. to 10*h*. 30*m*. P. M., occasional beams of the aurora borealis, extending from N N. E. to N. W. by W. The altitude never attained a greater height than 22°, nor were they at any time very distinct.

June 13.—At 6*h*. P. M., wind changed suddenly to N. W., and blew very heavy for half an hour.

June 18.—At 9*h*. 30*m*., a heavy squall of wind and rain from the westward.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1839—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
29.850	74.0	65.0	55.0	10.0	S. & W.	Light	Hazy.
29.870	86.0	68.0	52.0	16.0	W S. W.	Light	Clear.
29.800	80.0	69.5	63.0	6 5	Southward	Airs	Cloudy.
29 864		69.0	56.0	13.0	S & E.	Moderate	Clo dy.
29.850		61.0	58 0	3.0	N. & E.	Light	Cloudy.
30.078	82.0	63.0	48.0	15.0	N. & W.	Fresh	Clear.
30.270	93.0	69.0	60.0	9 0	Westward	Airs	Clear.
30.250	95.0	72.0	65.0	7 0	Southward	Light	Clear.
30.000	95.0	76.0	69.0	7.0	Southward	Light	Cloudy.
30 040	85.0	72.0	59.0	13 0	N. & W.	Moderate	Clear.
29 950		75.0	70.0*	5.0	N. & W.	Airs	Cloudy.
30.050		72.5	65.0	7 5	N. & W.	Airs	Cloudy.
30.100		73.0	67.0	6.0	Westward	Moderate	Cloudy.
30.016		60.0	60 0	0 0	N. & E.	Moderate	Rain.
30.010		69.0	63.0	6.0	N. & W.	Light	Cloudy.
29.998	78 0	60.0	41 0	19.0	N. & W.	Strong	Clear.
30.100	82.0	63 0	49.0	14.0	S. & W.	Moderate	Hazy.
29 920		73.0			Westward	Fresh	Cloudy.
30.000	75.0	62.0	49.0	13.0	Northward	Fresh	Clear.
30.000	88.0	66.0	60.0	6.0	Westward	Light	Hazy.
29.890		75.0	73.0	2.0	S. & W.	Light	Hazy.
29 842		73.5	62.0	11.5	N. & W.	Fresh	Cloudy.
30.026	81.0	70.0	45.0	25.0	Eastward	Airs	Clear.
30.044		67.0	67 0	0.0	W. S. W.	Light	Rain.
30.130		66.0	60.0	6.0	N. N. E.	Moderate	Cloudy.
30.178	95.0	76 0	60.0	16.0	S. & W.	Light	Clear.
30.048		69.5	63.0	6.5	S. & E.	Light	Cloudy.
29.814	95.0	71.5	64.0	7.5	N. & W.	Light	Clear.
29.850	79.5	72.0	65.0	7 0	Northward	Fresh	Pas'g cl'ds.
30.154	97.0	74.0	65.0	9.0	Eastward	Light	Hazy.
29.999	85.91	69.08	59.76	9.10			

REMARKS—Continued.

June 27.—From 10*h.* A. M. to 2*h.* P. M., rain.

From 10*h.* 30*m.* P. M. to 2*h.* 30*m.* A. M., of the 28th, heavy squalls of wind and rain f the westward.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Sat.	1		29.850	77.0	65.0	51.0	14.0	N. & W.	Light	Pas'g cl's
Sun.	2		29.860	80.0	72.0	52.0	20.0	Westward	Light	Pas'g cl's
Mon.	3		29.800	86.0	70.0	57.0	13.0	Westward	Moderate	Clear
Tues.	4	☾	29.872		68.0	59.0	9.0	E. N. E.	Moderate	Cloudy
Wed.	5		29.870		66.5	57.0	9.5	Westward	Moderate	Pas'g cl's
Thu.	6		30.100		78.0	68.0	10.0	Westward	Moderate	Pas'g cl's
Fri.	7		30.250	96.0	75.0	58.0	17.0	Southward	Airs	Clear
Sat.	8		30.150	90.0	80.0	60.0	20.0	Southward	Moderate	Clear
Sun.	9		29.960		80.0	68.0	12.0	S. & W.	Moderate	Pas'g cl's
Mon.	10		30.010	100.0	80.0	58.0	22.0	Westward	Fresh	Clear
Tues.	11	●	29.922	98.0	82.0	65.0	17.0	Westward	Fresh	Clear
Wed.	12		30.050		79.0	68.0	11.0	Southward	Airs	Cloudy
Thu.	13		29.920		86.0	79.0	7.0	Westward	Light	Cloudy
Fri.	14		29.990		69.0	64.0	5.0	N. & E.	Moderate	Cloudy
Sat.	15		29.950	82.0	72.0	63.0	9.0	Westward	Light	Clear
Sun.	16		30.000	86.0	71.0	41.0	30.0	N. & W.	Fresh	Clear
Mon.	17		30.100	81.0	74.0	50.0	24.0	S. & W.	Moderate	Hazy
Tues.	18	☽	29.774		72.0	72.0	0.0	S. & W.	Moderate	Rain
Wed.	19		29.992	88.0	74.0	45.0	29.0	W. N. W.	Moderate	Clear
Thu.	20		30.000	88.0	76.0	55.0	21.0	S. & W.	Moderate	Clear
Fri.	21		29.850		79.0	75.0	4.0	S. & W.	Moderate	Clear
Sat.	22		29.840	89.0	75.0	55.0	20.0	N. & W.	Fresh	Clear
Sun.	23		30.032	86.0	74.0	45.0	29.0	N. & W.	Moderate	Clear
Mon.	24		30.004		64.0	64.0	0.0	Eastward	Light	Rain
Tues.	25		30.196		72.0	65.0	7.0	S. S. E.	Light	Pas'g cl's
Wed.	26	○	30.142	84.0	76.0	60.0	16.0	S. S. W.	Light	Pas'g cl's
Thu.	27		29.934		71.5	69.0	2.5	S. S. E	Light	Cloudy
Fri.	28		29.814		81.0	62.0	19.0	N. & W.	Squalls	Pas'g cl's
Sat.	29		30.020	90.0	75.0	64.0	11.0	Northward	Moderate	Clear
Sun.	30		30.170	100.0	82.0	60.0	22.0	S. S. W.	Light	Clear
Mean			29.981	88.29	74.63	60.30	14.33			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1839—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	Inches.
29.850	57.0	51.0	6.0	N. & W.	Light	Clear	72.0	48.0	
29 840	62.0	48.0	14.0	Calm	Calm	Cloudy	72 0	50.0	
29.800	61.0	58.0	3.0	Eastward	Airs	P'g cl'ds	73.0	52.0	
29.872	58.0	58.0	0.0	N. & E.	Moderate	Rain	68.0	56.0	.95
29.950	61 0	59.0	2.0	N. & W.	Light	Clear	69.0	54.0	.10
30.128	60.0	49.0	11.0	Calm	Calm	Clear	82.0	49.0	
30.244	66.0	59.0	7.0	Southward	Light	Clear	78.0	57.0	
30.110	74.0	68.0	6.0	Southward	Light	Cloudy	86.0		
29.920	70.0	64 0	6.0	Southward	Airs	Clear	83.0	65.0	
30.000	74 0	68.0	6.0	Westward	Airs	Hazy	80.0	62.0	
29.920	79.0	71.0	8.0	Westward	Light	Cloudy	82.0	62.0	
30.038	74.0	65.0	9.0	S. & E.	Light	Cloudy	79 0	62.0	
29.920	71.0	71.0	0.0	N. & W.	Moderate	Rain	86.0	70.0	
29.990	64.0	64.0	0.0	N. & W.	Moderate	Rain	75.0	55.0	.67
29.930	70.0	65.0	5 0	Westward	Airs	Clear	79.0	55.0	
30.050	63.0	46.0	17.0	N. & W.	Moderate	Clear	72.0	58.0	
30.028	70.0	62.0	8.0	S. & E.	Light	Clear	75 0	55.0	
29.760	72.0	72.0	0.0	Westward	Fresh	Rain	73.0	67.0	.47
29.990	63.0	60.0	3.0	Calm	Calm	Hazy	75.0	59.0	
29.952	71.0	65.0	6.0	Westward	Airs	Clear	76.0	57.0	
29.720	75.0	75.0	0.0	Westward	Airs	Rain	79.0	68.0	
29.918	66.0	53.0	13.0	N. N. W.	Light	Clear	75.0	60.0	
30.028	71.0	60.0	11.0	N. & E.	Light	Clear	74.0	55.0	
30.008	62.0	62.0	0.0	N. & E.	Moderate	Rain	70.0	59.0	.70
30.168	70.0	60.0	10.0	Eastward	Airs	Clear	72.0	58.0	
30.140	69.0	59.0	10.0	Southward	Light	Clear	78.0	64.0	
29.878	72.0	70.0	2.0	Calm	Calm	Cloudy	72.0	56 0	.43
29.918	70.0	58.0	12.0	N. & W.	Moderate	Clear	83.0	66.0	.64
30.050	72.0	70.0	2.0	Northward	Airs	Clear	75.0	63.0	
30.188	79.0	70.0	9.0	S. S. E.	Light	Clear	83.0	60.0	
29.977	68.20	62.00	6.20				76.53	55.24	3.96

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1839.

3 A. M.

Days of the month.		Phases of the moon.	Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Mon.	1		30.190	63 0	61.0	2.0	Calm	Calm	Clear
Tues.	2		30.150	65.0	59.0	6 0	E. N. E.	Moderate	Cloudy
Wed.	3		29.950	67 0	63.0	4 0	Northward	Airs	Cloudy
Thu.	4	☾	29 920	71.0	68.0	3.0	Westward	Light	Clear
Fri.	5		30.090	61.0	52.0	9.0	N. N. E.	Moderate	Clear
Sat.	6		30.130	67.0	49.0	18.0	North	Airs	Clear
Sun.	7		30.050	62.0	58.0	4.0	Southwest	Airs	Clear
Mon.	8		30.160	64.0	58.0	6.0	East	Airs	Cloudy
Tues.	9		30.004	68.0	63.0	5.0	Southwest	Moderate	Cloudy
Wed.	10		30 000	68.0	64.0	4.0	West	Airs	Clear
Thu.	11	●	29.808	75.0	68.0	7.0	Southwest	Light	Cloudy
Fri.	12		29.770	68.0	64.0	4.0	N. & W.	Airs	Hazy
Sat.	13		29.900	69.0	59.0	10.0	Southwest	Light	Passing cl'ds
Sun.	14		29.930	64.0	64.0	0.0	South	Light	Light rain
Mon.	15		29.800	61.0	56 0	5.0	S. & W.	Light	Cloudy
Tues.	16		29.820	60.0	56.0	4.0	East	Light	Clear
Wed.	17		30.170	60.0	54.0	6.0	North	Airs	Clouds
Thu.	18	☽	30.306	62.0	59.0	3.0	S. & W.	Airs	Clear
Fri.	19		30.306	66 0	64.0	2.0	S & W.	Airs	Clear
Sat.	20		30.300	70.0	65 0	5.0	Northward	Moderate	Cloudy
Sun.	21		30.114	71.0	68.0	3.0	S. & W.	Moderate	Cloudy
Mon.	22		30.028	77.0	70.0	7.0	West	Light	Light clou
Tues.	23		30.000	72.0	67.0	5.0	N. & E.	Airs	Clear
Wed.	24		30.092	70.0	66.0	4.0	N. & E.	Airs	Clear
Thu.	25		29 838	76.0	70.0	6 0	West	Airs	Clear
Fri.	26	○	29.838	76.0	70.0	6.0	West	Airs	Hazy
Sat.	27		29.938	64.0	61.0	3.0	N. & E.	Airs	Cloudy
Sun.	28		29.998	63.0	60.0	3.0	N. & E.	Airs	Cloudy
Mon.	29		29.980	65.0	63.0	2.0	S. & E.	Light	Cloudy
Tues.	30		29.980	64.0	60.0	4 0	East	Light	Cloudy
Wed.	31		29.980	70.0	65.0	5.0	S. & W.	Light	Hazy
	Means		30.014	67.05	62.07	4.98			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1839—Continued.

9 A. M.

Barometer.	Thermometer.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.196	99.0	75.0	66.0	9 0	South	Moderate	Clear.
30.150	99.0	73.0	73.0	0.0	Southwest	Moderate	Rain.
29.926	94.0	73.0	66.0	7.0	Southwest	Moderate	Clear.
30.020	91.0	72.0	55.0	17.0	N. & W.	Fresh	Clear.
30.150		69.0	54.0	15.0	North	Moderate	Cloudy.
30.182	88.0	70.0	58.0	12 0	West	Moderate	Cloudy.
30.060	87.0	79 0	63.0	16.0	West	Light	Clear.
30.050		74.0	57.0	17.0	Southwest	Fresh	Cloudy.
30.030		74.0	70.0	4.0	Westward	Light	Clear.
29 990	83.0	75.0	70.0	5.0	Southwest	Moderate	Hazy.
29.810		81 0	67.0	14.0	West	Moderate	Clear.
29.800	98.0	74 0	55.0	19.0	West	Moderate	Cloudy.
29.970		73.0	64 0	9.0	West	Airs	Clear.
29.954	85.0	75.0	75.0	0.0	S. S. W.	Moderate	Cloudy.
29 788		72.0	62.0	10.0	Southwest	Moderate	Pas'g cl'ds.
30.020	92.0	73.0	64.0	9.0	West	Airs	Clear.
30.240	100.0	68.0	60.0	8 0	South	Light	Clear.
30.310		74.0	66.0	8 0	South	Moderate	Pas'g cl'ds.
30.330	98.0	78.0	71.0	7.0	S. & W.	Airs	Clear.
30.280	88.0	77.0	66.0	11.0	S. S. W.	Fresh	Cloudy.
30 100		77 0	73.0	4 0	Southwest	Moderate	Squally.
30.040		82.0	72.0	10.0	West	Light	Cloudy
30.052	107.0	80.0	63.0	17.0	W. N. W.	Moderate	Pas'g cl'ds.
30.060	97 0	79.0	72.0	7.0	S. & E.	Light	Cloudy.
29.916	90 0	79 0			South	Light	Pas'g cl'ds.
29.940	89.0	80.0	67.0	13.0	Northwest	Fresh	Pas'g cl'ds.
29.968	103.0	80.0			Southeast	Moderate	Hazy.
30.028	92.0	80.0	74.0	6.0	Southwest	Moderate	Cloudy.
29.990		76.0	70.0	6.0	Southeast	Moderate	Cloudy.
29.988		77.0	74.0	3.0	West	Airs	Cloudy.
29.950	95.0	81.0	71.0	10 0	N. & W.	Fresh	Cloudy.
30.040	93.75	75.80	66.27	9.41			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Mon.	1		30.200	101.0	81.0	60.0	21.0	Southward	Light	Clear
Tues.	2		29.986		74.0	74.0	0.0	Southwest	Moderate	Rain
Wed.	3		29.938	102.0	81.0	69.0	12.0	Southwest	Moderate	Clear
Thu.	4	☾	30.020	94.0	76.0	54.0	22.0	N. & W.	Moderate	Clear
Fri.	5		30.150		73.0	58.0	20.0	North	Fresh	Pas'g cl'd
Sat.	6		30.070		70.0	58 0	12.0	West	Moderate	Cloudy
Sun.	7		30.050	95.0	75.0	55.0	20.0	Southwest	Moderate	Clear
Mon.	8		30.034	96.0	77.0	52.0	25.0	West	Light	Pas'g cl'd
Tues.	9		30.020	96 0	84.0	60.0	24.0	Southwest	Fresh	Clear
Wed.	10		29.950	96.0	86.0	68.0	18 0	West	Light	Hazy
Thu.	11	●	29.740	98.0	87.0	56.0	31.0	West	Moderate	Clear
Fri.	12		29.800	91.0	78.0	56.0	22.0	West	Moderate	Pas'g cl'ds
Sat.	13		30 000	90.0	78.0			S. S. W.	Moderate	Clear
Sun.	14		29.876		85.0	76.0	9.0	Southwest	Airs	Cloudy
Mon.	15		29.788	101.0	78.0	56.0	22.0	West	Moderate	Pas'g cl'd
Tues.	16		30.030	95.0	77.0	51.0	26.0	South	Moderate	Clear
Wed.	17		30.270	100.0	76.0	60.0	16.0	South	Airs	Clear
Thu.	18	☽	30.310		83.0	58.0	25.0	S. & W.	Light	Pas'g cl'
Fri.	19		30.330	101.0	88.0	60.0	28.0	S. S. W.	Moderate	Clear
Sat.	20		30.200		86.0	68.0	18.0	Southwest	Airs	Cloudy
Sun.	21		30.028		81.5	70.0	11.5	West	Fresh	Squally
Mon.	22		30.030		87.0	70.0	17.0	W. N. W.	Moderate	Cloudy
Tues.	23		30.098	110.0	86.0	69.0	17.0	S. & E.	Light	Pas'g cl'
Wed.	24		30.030		86.0			South	Moderate	Clouds
Thu.	25		29.880	110.0	85.0			Northwest	Light	Pas'g cl'
Fri.	26	○	29.922	106.0	85.0			Southeast	Light	Pas'g cl'd
Sat.	27		29.998	101.0	84 0	62.0	22.0	Southwest	Fresh	Hazy
Sun.	28		29.996		76.0	66.0	10.0	Southeast	Moderate	Cloudy
Mon.	29		29 988		80.0	70.0	10.0	West	Moderate	Cloudy
Tues.	30		30.040		83.0	74.0	9.0	N. & W.	Moderate	Cloudy
Wed.	31		29.900		84.5	77.0	7.5	N. & W.	Airs	Cloudy
Mean			30.022	99.06	80.35	63.22	17.57			

REMARKS.

July 22.—At 3 P. M., squally appearances at the northward and westward. At 5 P. M. the wind hauled suddenly from west to the northwest, blowing fresh, accompanied with rain thunder, and lightning; moderated at 5*h*. 30*m*. P. M.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1839—Continued.

9 P. M.							Registering thermometer.		Rain or snow.
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	
Inches.	°	°	°				°	°	Inches.
30.200	73.0	60.0	13.0	South	Airs	Clear	82.0	62.0	
29.960	74.0	74.0	0.0	North	Airs	Rainy	74.0	65.0	2.280
29.936	76.0	72.0	4.0	West	Moderate	Cloudy	87 0	61.0	
30.046	70.0	54.0	16.0	Northwest	Moderate	Cloudy	77.0	64.0	
30.140	70.0	56.0	14.0	North	Airs	Clear	73.0	59.0	
30 060	67.0	58.0	9.0	N. & W.	Airs	Clear	70.0	67.0	0.020
30.050	72.5	65.0	7.5	West	Airs	Clear	79.0	56.0	
30.010	69.0	60.0	9.0	West	Moderate	Cloudy	77.0	63.0	0.100
30.000	75.0	70.0	5.0	West	Airs	Clear	84.0	62 0	
29.896	80.0	75.0	5.0	Southwest	Light	Pass'g cl'ds	86.0	65.0	
29.700	80.0	70.0	10.0	East	Light	Clear	87.0	70.0	
29.832	76.0	60.0	16.0	Calm	Calm	Clear	78.0	62.0	0.020
29.990	76.0	65.0	11.0	West	Airs	Cloudy	78.0	59.0	
29.830	72.0	67.0	5.0	S. S. W.	Light	Cloudy	77.0	63.0	0.100
29.850	71.0	60.0	11.0	West	Light	Clear	78.0	59.0	0.080
30.090	75.0	65.0	10.0	West	Airs	Pass'g cl'ds	77.0	58.0	
30.272	72.0	62.0	10.0	S. S. W.	Light	Clear	76.0	59.0	
30.320	76.0	65.0	11.0	Calm	Calm	Clear	83 0	58.0	
30.380	79.5	70.0	9.5	West	Light	Cloudy	88.0	66.0	
30.178	79.0	79.0	0.0	S. & W.	Moderate	Rain	88.0	70.0	
30.020	79.0	76.0	3.0	S. & W.	Moderate	Hazy	82.0	65.0	
30.010	80.0	80.0	0.0	N. & W.	Moderate	Rainy	87.0	69.0	0.600
30.090	77.0	72.0	5.0	Northward	Airs	Clear	86.0	72.0	
30.000	80.0			N. & E.	Moderate	Rainy	86.0	70.0	0.482
29.830	77.0			Southeast	Light	Hazy	85.0	65 0	0.280
29.924	70.0			Calm	Calm	Clear	85.0	66 0	
29.990	78.0	68.0	10.0	Southward	Airs	Hazy	84.0	64.0	
29.976	76.0	70.0	6.0	Southward	Airs	Cloudy	80.0	68 0	
29.976	76 0	72.0	4.0	Southward	Light	Hazy	80.0	65.0	
30.010	78.0	74.0	4.0	Westward	Airs	Clear	83.0	67.0	
29.900	77.0	72.0	5.0	Eastward	Airs	Clear	84.5	70 0	0.040
30.015	75.28	67.54	7.61				81.34	59.48	3.952

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1839.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Thu.	1		30.000	64.0	59.0	5.0	West	Airs	Clear
Fri.	2	☾	30.048	62.0	56.0	6.0	South	Airs	Cloudy
Sat.	3		30.020	60.0	56.0	4.0	North	Airs	Cloudy
Sun.	4		30.062	57.0	56.0	1.0	Northeast	Moderate	Cloudy
Mon.	5		30.110	55.0	53.0	2.0	North	Airs	Cloudy
Tues.	6		30.112	62.0	61.0	1.0	South	Light	Cloudy
Wed.	7		30.040	63.0	60.0	3.0	West	Light	Cloudy
Thu.	8		29.950	64.0	64.0	0.0	Southwest	Fresh	Rain
Fri.	9	●	29.750	65.0	62.0	3.0	Northwest	Moderate	Pass'g cl'ds
Sat.	10		29.910	55.0	54.0	1.0	Northwest	Light	Clear
Sun.	11		30.100	56.0	54.0	2.0	Westward	Airs	Cloudy
Mon.	12		30.092	65.0	60.0	5.0	Southwest	Moderate	Pass'g cl'ds
Tues.	13		30.220	60.0	56.0	4.0	North	Fresh	Cloudy
Wed.	14		30.260	58.0	57.0	1.0	Northeast	Moderate	Hazy
Thu.	15		30.270	59.0	56.0	3.0	Northeast	Light	Clear
Fri.	16		30.000	53.0	53.0	0.0	N'd & E'd	Fresh	Rain
Sat.	17	☽	29.920	54.0	54.0	0.0	N'd & E'd	Fresh	Rain
Sun.	18		30.070	59.0	56.0	3.0	N'd & E'd	Airs	Cloudy
Mon.	19		30.100	68.0	56.0	12.0	North	Light	Clear
Tues.	20		30.100	60.0	60.0	0.0	Southeast	Light	Fog
Wed.	21		30.080	63.0	63.0	0:0	Calm	Calm	Fog
Thu.	22		30.030	63.0	59.0	4.0	South	Light	Clear
Fri.	23		29.990	66.0	64.0	2.0	North	Moderate	Cloudy
Sat.	24	○	30.030	62.0	62.0	0.0	Calm	Calm	Mist
Sun.	25		30.032	71.0	70.0	1.0	Southwest	Moderate	Cloudy
Mon.	26		30.040	69.0	69.0	0.0	Calm	Calm	Clear
Tues.	27		29.950	71.0	70.0	1.0	West	Airs	Clear
Wed.	28		29.912	75.0	70.0	5.0	Northwest	Light	Clear
Thu.	29		30.100	56.0	49.0	7.0	North	Fresh	Cloudy
Fri.	30		29.990	53.0	50.0	3.0	North	Strong	Cloudy
Sat.	31	☾	30.040	62.0	48.0	14.0	Northwest	Light	Clear
Means			30.044	61.45	58.61	2.84			

REMARKS.

August 8.—At 4*h*. P. M., wind changed suddenly to N. W., followed by a thunder stor till 5*h*. 30*m*.

August 12.—At 5*h*. P. M., wind hauled suddenly from W. S. W to N. W., with viole rain, thunder, and lightning.

August 24.—At 8*h*. P. M., a brilliant meteor, originating near *α Scorpii*, (Antares.) It was at first faint, but became brighter as it approached the horizon, the cirrus clouds near which

AUGUST, 1839—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dewpoint.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.020		75.0	67.0	8.0	Westward	Light	Cloudy.
30.050		76.5	69.0	7.5	Southward	Airs	Cloudy.
30.000		72.0	63.0	9.0	Southward	Airs	Cloudy.
30.110	85.0	74.5	64.0	10.5	S'd & E'd	Light	Clear.
30.120	85.0	73.5	66.0	7.5	N'd & W'd	Airs	Clear.
30.130	84.5	74.5	69.0	5.5	Southward	Light	Clear.
30.036		77.0	70.0	7.0	Northward	Moderate	Pass'g clouds.
29.900		77.0	77.0	0.0	Northwest	Airs	Rain.
29 734	91.0	74.0	62.0	12.0	Westward	Fresh	Pass'g clouds.
30.020	90.0	70.0	60.0	10.0	Northwest	Light	Clear.
30.106	101.0	74.0	62.0	12 0	Eastward	Light	Haze.
30.100	91.0	75.5	67.0	8.5	S'd & W'd	Fresh	Clouds.
30.220	84.0	74.0	67.0	7.0	Northeast	Fresh	Haze.
30.290	85.0	74.0	67.0	7.0	North	Light	Clear.
30.260		71.5	60.0	11.5	Northeast	Light	Clear.
29.950		69.5	69 5	0.0	N'd & E'd	Fresh	Rain
30.024		65.0	60.0	5 0	Southward	Moderate	Cloudy.
30.000		67.5	60.0	7.5	S'd & W'd	Moderate	Clear.
30.110		68.0	65.0	3.0	Eastward	Light	Cloudy.
30.100	88.0	71.0	70.0	1.0	Northward	Airs	Cloudy.
30.079		64.0	63.0	1.0	Northward	Airs	Cloudy.
30.000		71.0	69.0	2.0	Southeast	Airs	Cloudy.
30.000		74.0	71.0	3.0	N'd & E'd	Light	Cloudy.
30 040		72 0	72.0	0.0	Calm	Calm	Cloudy.
30.024	90 0	74.0	72.0	2.0	Westward	Airs	Hazy.
30.060	89.0	78.0	73 0	5.0	Calm	Calm	Clear.
29.939		78.5	75.0	3.5	Westward	Moderate	Clear.
30.012	96.0	76.0	59.0	17.0	Northeast	Fresh	Clear.
30.120		66.5	50.0	16.5	N'd & W'd	Fresh	Cloudy.
29.882		64.0	52 0	12.0	North	Strong	Cloudy.
30.100		61.0	51.0	10.0	W. N. W.	Moderate	Clear.
30.049	89.19	72.03	65.21	6.82			

REMARKS—Continued.

it passed presenting the appearance of *sheet lightning*. There was a very distinct train. It exploded near Venus, after a probable duration of 4 seconds.

August 28.—From 8*h*. 30*m*. to 9*h*. P M., occasional radiating beams of the aurora borealis, extending from N. N. E. to W. N. W., of faint red and yellow colors. Their altitude did not exceed 25°.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		W
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Thu.	1		30.050		79.0	58.0	21.0	Northwest	Light	Clou
Fri.	2	☾	29.990		74.0	74.0	0.0	Northward	Light	Rain
Sat.	3		30.000		76.0	68.0	8.0	Calm	Calm	Clouds
Sun.	4		30.110		77.5	61.0	16.5	Northward	Airs	Clouds
Mon.	5		30.112	106.0	80.0	62.0	18.0	S. S. W.	Light	Pas'g
Tues.	6		30.080		79.0	66.0	13.0	S'd & E'd	Light	Pas'g
Wed.	7		30.034	104.0	83.0	61.0	22.0	Southwest	Moderate	Pas'g c
Thu.	8		29.920		81.0	77.0	4.0	Southward	Airs	Clouds
Fri.	9	●	29.760	96.0	79.0	56.0	23.0	Westward	Gale	Pas'g c
Sat.	10		30.010		74.5	59.0	15.5	S'd & W'd	Light	Clear
Sun.	11		30.130	100.0	79.0	66.0	13.0	Southwest	Moderate	Pas'g cl
Mon.	12		30.100	97.0	84.5	70.0	14.5	N'd & W'd	Light	Pas'g cl'u
Tues.	13		30.230		76.0	55.0	21.0	Northeast	Moderate	Pas'g cl'd
Wed.	14		30.300		74.5	74.0	0.5	North	Fresh	Clouds
Thu.	15		30.200		72.0	57.0	15.0	North	Fresh	Clouds
Fri.	16		29.760		68.0	68.0	0.0	North	Fresh	Rain
Sat.	17	☽	30.050	78.0	69.0	61.0	8.0	S'd & W'd	Light	Pas'g c
Sun.	18		30.000		69.5	62.0	7.5	Southwest	Light	Clou
Mon.	19		30.108		71.0	64.0	7.0	Southeast	Light	Pas'g
Tues.	20		30.090		74.0	69.0	5.0	N'd & E'd	Light	Clou
Wed.	21		30.074		74.0	74.0	0.0	N'd & W'd	Light	Rain
Thu.	22		30.000		75.0	72.0	3.0	Southeast	Moderate	Pas'g c
Fri.	23		30.000	103.0	74.0	74.0	0.0	East	Fresh	Rain
Sat.	24	○	30.132	102.0	78.0	72.0[b]	6.0	South	Light	Clear
Sun.	25		30.050		82.0	74.0	8.0	W. S. W.	Moderate	Pas'g c
Mon.	26[a]		30.010		82.0	76.0	6.0	South	Light	Clear
Tues.	27		29.914		80.0	76.0	4.0	West	Light	Clear
Wed.	28		30.028		76.0	60.0	16.0	West	Fresh	Cloud
Thu.	29		30.050		67.0	50.0	17.0	N'd & E'd	Fresh	Clouds
Fri.	30		30.028		64.0	54.0	10.0	N'd & W'd	Fresh	Clear
Sat.	31	☾	30.132		64.5	55.0	9.5	Westward	Moderate	Clear
Mean			30.047	98.25	75.39	65.32	10.07			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1839—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
nches.	°	°	°				°	°	*Inches.*
0.050	76,5	68.0	8.5	Westward	Airs	Clouds	79.0	63.0	
9,990	72.5	68 0	4.5	Calm	Calm	Clouds	74.0	62.0	0.93
0,000	73.0	68.0	5.0	Calm	Calm	Clear	76.0	59.0	
0.100	74.0	68.0	6.0	Calm	Calm	Clear	77.5	57.0	
0.100	75.0	70.0	5.0	South	Airs	Clear	80.0	55.0	
0.050	77.0	73.0	4.0	South	Airs	Clear	79.0	62.0	
0.031	77.0	68.0	9.0	Southeast	Light	Cloudy	83,0	63,0	
9.790	75.0	70.0	5.0	Southward	Moderate	Clear	81.0	63.5	0.78
9.900	68.0	58.0	10.0	Northwest	Moderate	Clear	79.0	62,0	
0.010	74.0	68.0	6.0	Southwest	Airs	Clear	75.0	55.0	
0.100	74.5	69.0	5.5	Westward	Airs	Clear	79.0	55.0	
0.100	77.0	76.0	1.0	Southward	Light	Cloudy	85.0	64.0	0.10
0.200	74.0	70.0	4.0	Eastward	Airs	Cloudy	76.0	60.0	0,06
0.270	70.0	66.0	4.0	Northward	Airs	Clear	75.0	60,0	
0.220	70.5	69.0	1.5	Northeast	Airs	Clouds	72.0	59.0	
9.820	62.0	62.0	0.0	Northward	Fresh	Rain	70.0	53.0	2.25
0.050	65.0	62.0	3.0	S'd & W'd	Airs	Clouds	69.0	52.0	
0.080	68.5	59.0	9.5	Northward	Moderate	Clear	70.0	55.0	
0.100	66.0	64.0	2.0	Southward	Airs	Cloudy	91.0	59.0	
0.180	72.0	70.0	2.0	Northward	Airs	Cloudy	74.0	60.0	
0.062	71.5	62.0	9.5	Southward	Light	Cloudy	74.0	62.0	
9.982	73.0	70.0	3.0	Northward	Light	Clear	75.0	63.0	0.26
0.000	73.0	69.0	4.0	Calm	Light	Clear	74.0		1.00
0.036	74.0	72.0	2.0	Northward	Light	P'g cl'ds		62.0	
0.036	79.0	77.0	2.0	E. S. E.	Airs	Cloudy	82.0	68.0	0.25
9.990	81.0	81.0	0.0	Calm	Calm	Rain	82.0	70.0	0.40
9.910	79.0	79.0	0.0	Westward	Moderate	Clear	82.0	71.0	
0.130	74.5	66.0	8.5	N'd & W'd	Airs	Cloudy	76.0	56.0	
0.050	65.0	55.0	10.0	N'd & E'd	Fresh	Cloudy	67.0	52.0	
0.044	64.0	51.0	13.0	N'd & W'd	Light	Cloudy		54.0	
0.200	65.0	56.0	9.0	North	Light	Cloudy			
0.051	72.27	67.22	5.05				77.02	59.88	6.03

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1839.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		W
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Sun.	1		30.298	52.0	52.0	0.0	Calm	Calm	Clea
Mon.	2		30.342	62.0	55.0	7.0	Northward	Light	Clear
Tues.	3		30.300	54.0	49.0	5.0	Northward	Light	Clou
Wed.	4		30.142	68.0	59.0	9.0	Northwest	Fresh	Clou.
Thu.	5		29.970	66.0	63.0	3.0	Southward	Airs	Clou
Fri.	6		30.010	70.5	65.0	5.5	Southward	Airs	Clear
Sat.	7		29.918	70.0	70.0	0.0	Northeast	Light	Rain
Sun.	8	●	29.820	68.0	68.0	0.0	Eastward	Moderate	Clou
Mon.	9		29.774	70.0	69.0	1.0	Eastward	Moderate	Clou
Tues.	10		29.930	66.0	63.0	3.0	Westward	Moderate	Clear
Wed.	11		30.034	47.0	45.0	2.0	Northward	Airs	Cloudy
Thu.	12		30.064	50.0	47.0	3.0	Westward	Light	Clear
Fri.	13		30.150	49.0	44.0	5.0	North	Airs	Clear
Sat.	14		30.250	50.0	49.0	1.0	Northwest	Light	Clea
Sun.	15	☾	30.340	43.0	41.0	2.0	East	Airs	Clea
Mon.	16		30.200	59.0	59.0	0.0	Southwest	Airs	Clea
Tues.	17		30.090	56.0	56.0	0.0	Calm	Calm	Clou
Wed.	18		29.910	69.0	60.0	9.0	North	Moderate	Clea
Thu.	19		30.050	56.0	55.0	1.0	Calm	Calm	Clea
Fri.	20		30.152	57.0	54.0	3.0	West	Light	Clea
Sat.	21		30.162	69.0	66.0	3.0	Northwest	Moderate	Haz
Sun.	22		30.180	70.0	69.0	1.0	West	Airs	Clea
Mon.	23	○	29.840	70.0	68.0	2.0	South	Moderate	Clou
Tues.	24		29.840	71.0	70.0	1.0	N. & W.	Light	Clea
Wed.	25		29.852	55.0	54.0	1.0	Calm	Calm	Clou
Thu.	26		29.850	64.0	55.0	9.0	West	Light	Clea
Fri.	27		30.120	37.0	34.0	3.0	Northwest	Moderate	Clou
Sat.	28		30.002	42.0	33.0	9.0	West	Fresh	Clea
Sun.	29		30.160	38.0	35.0	3.0	North	Light	Clou
Mon.	30	☽	30.120	50.0	45.0	5.0	N. & E.	Light	Clou
Mean			30.062	58.28	55.06	3.22			

REMARKS.

September 3.—Indications at the northward of the aurora borealis, which the cloudy sta the weather prevented being distinctly seen. Continued unusually light till 9 P. M.

September 14.—From 10*h*. 20*m*. to 11*h*. 30*m*. P. M., the aurora borealis appeared w extreme brilliancy; the beams being very distinct, and nearly parallel, with an altitu about 25°.

September 18.—At 2*h*. P. M., there was a heavy squall from the northward and westwa with thunder, lightning, and rain.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1839—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.330		64.0	56.0	8.0	North	Moderate	
30.350	80.0	65.0	58.0	7.0	North	Airs	Clear.
30.284		67.5	57.0	10.5	N. N. W.	Moderate	Cloudy.
30.030		68.0	68.0	0.0	Northeast	Fresh	Rain.
30.000		68.5	67.0	1.5	North	Airs	Clear.
30.000		71.0	67.0	4.0	South	Light	Light clouds.
30.220	100.0	73.0	65.0	8.0	Calm	Calm	Clear.
29.802		75.5	66.0	9.5	Southwest	Moderate	Cloudy.
29.750		78.0	74.0	4.0	Southwest	Fresh	Cloudy.
30.030	80.0	73.5	60.0	13.5	Northward	Moderate	Clear.
30.083	80 0	62.0	52.0	10.0	N. & W'd	Moderate	Clear.
30.124		66.0	64.0	2.0	Northwest	Moderate	Clear.
30.140	78.0	63.0	50.0	3.0	Northwest	Fresh	Pass'g clouds.
30.340	74.0	62.5	50.0	12.5	North	Airs	Clear.
30.330	77.0	65.0	51.0	14.0	West	Airs	Light clouds.
30.184		67.0	60.0	7.0	West	Moderate	Clear.
30.000	98.0	68.0	62.0	6.0	West	Light	Clear.
30.010	100.0	65.5	64.0	1.5	Calm	Calm	Pass'g clouds.
30.120	72.5	67.5	62.0	5.5	N. & W'd	Moderate	Clear.
30.111		68.0	65.0	3.0	Northward	Airs	Clear.
30.192	96.0	69.5	62.0	7.5	Westward	Airs	Hazy.
30.130	85.0	70.0	64.0	6.0	Northwest	Light	Clear.
30.230	76.0	72.0	61.0	11.0	North	Moderate	Clear.
29.882		67.0	60.0	7.0	Calm	Calm	Clear.
29.872	86.0	64.0	58.0	6.0	Southeast	Moderate	Clear.
30.030	71.0	60.5	48.0	12.5	N. and W.	Fresh	Clear.
30.100	63.0	71 0	55.0	16.0	Southward	Moderate	Pass'g clouds.
30.200		45.0	40.0	5.0	N. and W.	Fresh	Clear.
30.150	57.0	51.0	45.0	6.0	South	Airs	Clear.
30.260		51.0	41.0	10.0	S. & W'd	Fresh	Clear.
30.109	80.79	66.02	58.37	7.65			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1839—Continued.

3 P. M.

Days of the month.	Phases of the moon.	Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
			Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
		Inches.	°	°	°	°			
Sun. 1		30.342	74.0	67.0	57.0	10.0	Northeast	Moderate	Clear
Mon. 2		30.331	78.0	70.5	57.0	13.5	N'd & E'd	Moderate	Clear
Tues. 3		30.250		69.5	58.0	11.5	Northwest	Moderate	Clear
Wed. 4		29 974		74.0	74.0	0.0	Southeast	Moderate	Rain
Thu. 5		30.010		71.0	65.0	6.0	Northwest	Airs	Clear
Fri. 6		29.944		76.0	68.0	8.0	Southward	Fresh	Cloudy
Sat. 7		29.920		81.5	75.0	6.5	Eastward	Airs	Clear
Sun. 8	●	29.806		80.0	80.0	0.0	W. by N.	Moderate	Rain
Mon. 9		29.800	100.0	86.0	70.0	16.0	N. & W'd	Fresh	Pass'g clouds
Tues. 10		30.000	85.0	78.0	65.0	13.0	Southwest	Moderate	Clear
Wed. 11		30.050	79.0	71.0	59.0	12.0	Northwest	Moderate	Clear
Thu. 12		30.094		66.0	56.0	10.0	Northwest	Moderate	Clear
Fri. 13		30.140	74.0	63.0	44.0	19.0	North	Airs	Pass'g clouds
Sat.* 14		30.340		65.0	45.0	20.0	West	Moderate	Pass'g clou
Sun. 15	☽	30.280	93.0	70.0	52.0	18.0	West	Airs	Clear
Mon. 16		30.140	76.0	73.0	60.0	13.0	Southeast	Moderate	Clear
Tues. 17		30.000	99.0	72.0	72.0	0.0	N. and W.	Fresh	Light rain
Wed. 18		29.880		70.0	70.0	0.0	Westward	Moderate	Clear
Thu. 19		30.100	78.0	72.0	62.0	10.0	Westward	Airs	Clear
Fri. 20		30.162		73.0	65.0	8.0	Southward	Light	Hazy
Sat. 21		30.180	90.0	78.0	65.0	13.0	Northward	Airs	Clear
Sun. 22		29.916		76.0	70.0	6.0	Westward	Moderate	Pass'g clou
Mon. 23	○	29.823	78.0	75.0	62.0	13.0	N. and W.	Moderate	Clear
Tues. 24		29.828		76.0	63.0	13.0	S. and W.	Strong	Clear
Wed. 25		29.738	88.0	75.0	68.0	7.0	N. and W.	Fresh	Clear
Thu. 26		30.060	74.0	64.5	32.0	32.5	S. and W.	Fresh	Pass'g clouds
Fri. 27		29.930	70.0	63.0	52.0	11.0	N. and W.	Moderate	Clear
Sat. 28		30.168		58.0	41.0	17.0	West	Airs	Clear
Sun. 29		30.114	76.0	61.0	42.0	19.0	Northwest	Fresh	Clear
Mon. 30	☾	30.310	65.0	59.0	30.0	29.0	Northwest	Fresh	Clear
Mean		30.054	81.0	71.13	59.30	11.83			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1839—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inches.*
30.342	65.0	58.0	7.0	Calm	Calm	Clear	74.0	49.0	
30.320	68.0	66.0	2.0	North	Airs	Clear	70.5	49.0	
30.234	67.0	58.0	9.0	North	Moderate	Clear		53.0	
29.986	76.0	65.0	11.0	South	Airs	Cloudy	78.0	56.0	0.66
30.012	71.0	68.0	3.0	South	Airs	Cloudy		59.0	
29.924	71.0	68.0	3.0	South	Moderate	Cloudy		63.0	0.02
29.900	76.5	73.0	3.5	Eastward	Airs	Cloudy	81.5	64.0	
29.784	76.2	75.0	1.2	Eastward	Moderate	Cloudy		68.0	1.00
29.854	73.0	73.0	0.0	Calm	Calm	Cloudy	90.0	70.0	
30.020	71.5	68.0	3.5	N. & W.	Airs	Clear	78.0	60.0	
30.050	68.0	66.0	2.0	N. & E.	Moderate	Clear	71.0	46.0	
30.100	60.0	60.0	0.0	Northwest	Moderate	Clear		49.0	
30.220	58.0	50.0	8.0	Northwest	Light	Clear	75.0	33.0	
30.330	63.5	59.0	4.5	Northward	Airs	Clear	65.0	49.0	
30.242	65.0	64.0	1.0	Northward	Airs	Clear		41.0	
30.140	67.0	66.0	1.0	Northward	Airs	Clear	76.0	53.0	
29.950	69.0	69.0	0.0	S'd & W'd	Airs	Cloudy	72.0	56.0	
29.980	67.0	66.0	1.0	Westward	Moderate	Clear	70.0	53.0	0.01
30.118	68.0	55.0	13.0		Moderate	Clear		56.0	
30.150	69.0	68.0	1.0	West	Airs	Clear		58.0	
30.180	74.0	67.0	7.0	Calm	Calm	Clear	84.0	50.0	
29.900	71.0	69.0	2.0	Westward	Light	Clear	80.0	53.0	
29.850	71.0	71.0	0.0	Calm	Calm	Clear		52.0	
29.876	69.5	66.0	3.5	Calm	Calm	Cloudy		57.0	
29.734	68.0	48.0	20.0		Moderate	Clear	80.0	56.0	0.17
30.080	63.0	58.0	5.0	Calm	Calm	Cloudy		50.0	
29.880	64.0	59.0	5.0	W. S. W.	Fresh	Clear	72.0	48.0	
30.162	44.0	41.0	3.0	N. & W.	Moderate	P'g cl'ds	73.0	43.0	
30.121	53.0	40.0	13.0	N. & E.	Light	Clear	63.0	36.0	
30.342	56.0	40.0	16.0	N. & W.	Airs	Clear	59.0	47.0	
30.059	66.77	61.80	4.97				74.32	52.40	1.86

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1839.

Days of the month.	Phases of the moon.	3 A. M.						
		Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
				Dew point.	Difference.	Direction.	Force.	
		Inches.	°	°	°			
Tues. 1		30.390	38.0	30.0	8.0	West	Airs	Clear
Wed. 2		30.392	39.0	36.0	3.0	N. & W.	Airs	Clear
Thu. 3		30.050	45.0	42.0	3.0	Southeast	Airs	Clear
Fri. 4		29.950	58.0	56.0	2.0	West	Airs	Clear
Sat. 5		30.220	55.0			N. & W.	Fresh	Cloudy
Sun. 6		30.580	50.0	46.0	4.0	East	Moderate	Cloudy
Mon. 7	●	30.634	54.0	46.0	8.0	Southward	Moderate	Clear
Tues. 8		30.422	61.0	56.0	5.0	Northward	Airs	Clear
Wed. 9		30.200	45.0	45.0	0.0	Calm	Calm	Clear
Thu. 10		30.130	56.0	54.0	2.0	Northwest	Airs	Clear
Fri. 11		30.198	62.0	56.0	6.0	East	Light	Hazy
Sat. 12		30.230	59.0	56.0	3.0	Southeast	Light	Cloudy
Sun. 13		30.000	60.0	59.0	1.0	Calm	Calm	Hazy
Mon. 14		29.968	60.0	58.0	2.0	W'd & N'd	Airs	Clear
Tues. 15	☽	30.110	53.0	48.0	5.0	Eastward	Airs	Clear
Wed. 16		30.300	57.0	57.0	0.0	Eastward	Airs	Cloudy
Thu. 17		30.398	58.0	56.0	2.0	Northward	Airs	Clear
Fri. 18		30.330	48.0	48.0	0.0	East	Light	Cloudy
Sat. 19		30.050	60.0	60.0	0.0	East	Light	Rain
Sun. 20		30.300	48.0	46.0	2.0	Westward	Fresh	Pass'g cl
Mon. 21		30.566	39.0	34.0	5.0	N. N. E.	Fresh	Pass'g cl
Tues. 22	○	30.650	51.0	43.0	8.0	Northward	Light	Cloudy
Wed. 23		30.540	42.0	39.0	3.0	Northward	Airs	Hazy
Thu. 24		30.274	52.0	52.0	0.0	Southwest	Airs	Foggy
Fri. 25		30.160	52.0	52.0	0.0	Westward	Light	Foggy
Sat. 26		30.300	56.0	54.0	2.0	S. & W.	Light	Clear
Sun. 27		30.300	45.0	45.0	0.0	Calm	Calm	Foggy
Mon. 28		30.100	60.0	60.0	0.0	Southwest	Fresh	Foggy
Tues. 29	☾	30.100	48.0	48.0	0.0	West	Moderate	Clear
Wed. 30		30.072	52.0	42.0	10.0	Westward	Airs	Clear
Thu. 31		29.840	46.0			Northwest	Airs	Misty
Mean		30.250	51.90	49.10	2.90			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1839—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.450	60.0	55.0	44.0	11.0	North	Light	Clear.
30.312		56.0	48.0	8.0	Northwest	Light	Clear.
30.080	70.0	59.5	57.0	2.5	South	Light	Cloudy.
29.960	85.0	65.0	61.0	4.0	Calm	Calm	Clear.
30.360		65.0	48.0	17.0	Northward	Fresh	Cloudy.
30.666		55.0	45.0	10.0	Northward	Moderate	Cloudy.
30.624		64.0	54.0	10.0	Eastward	Airs	Cloudy.
30.364	65.0	60.0	55.0	5.0	West	Airs	Hazy.
30.200		62.0	55.0	7 0	Northward	Light	Clear.
30.134		66.0	58.0	8.0	N. & W.	Light	Clear.
30.312		65.0	59.0	6.0	Eastward	Light	Clear.
30.190		61.0	61.0	0.0	Eastward	Airs	Cloudy.
29 990		68.0	60.0	8.0	N. & W'd	Airs	Clear.
30.038		70.0	55.0	15.0	North	Light	Clear.
30.210	75.0	65.0	54.0	11.0	North	Airs	Clear.
30.392		66.0	55.0	11.0	N. & W.	Light	Clear.
30.400		59.0	55.0	4.0	Southeast	Airs	Clear.
30.332		63.0	59.0	4.0	N. & E.	Airs	Cloudy.
30.000		65.0	58.0	7.0	N. & W.	Moderate	Cloudy.
30.414		47.0	38.0	9.0	Northward	Strong	Light clouds.
30.640	68.0	42.0	30.0	12.0	N. N. E.	Fresh	Hazy.
30.646		49.0	48.0	1.0	N. & E.	Light	Cloudy.
30.480	79.0	53.0	53.0	0.0	Eastward	Airs	Foggy.
30.290	68.0	58.0	56.0	2.0	Westward	Airs	Hazy.
30 234	68.0	62.0	60.0	2.0	Eastward	Moderate	Hazy.
30.374		65.0	65.0	0.0	Calm	Calm	Foggy.
30.290		60.0	60.0	0.0	Calm	Calm	Misty.
30.092		64 0	60.0	4.0	S. & W.	Moderate	Hazy.
30.116		70.0	56.0	14.0	Westward	Airs	Clear.
30.074		64.0	58.0	6.0	N. & E.	Airs	Clear.
29.892		58.0	52.0	1.0	N. & W.	Moderate	Hazy.
30.276	70.88	60.53	54.10	6.43			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.						
			Barometer.	Thermometers.		Hygrometer.		Wind.	
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.
			Inches.	°	°	°	°		
Tues.	1		30.400	62.0	57.0	46.0	11.0	Southward	Airs
Wed.	2		30.140		68.0	46.0	22.0	Westward	Moderate
Thu.	3		29.950		76.0	56.0	20.0	Northwest	Moderate
Fri.	4		29.990	82.0	73.5	60.0	13.5	Southward	Airs
Sat.	5		30.400		63.0	52.0	11.0	N. & E.	Fresh
Sun.	6		30.680		60.0	48.0	12.0	N. & W.	Light
Mon.	7	☾	30.488		63.0	48.0	15.0	Southwest	Light
Tues.	8		30.290		64.0	55.0	9.0	West	Airs
Wed.	9		30.126	72.0	68.0	58.0	10.0	West	Airs
Thu.	10		30.130		69.0	65.0	4.0	Northward	Light
Fri.	11		30.280		64.0	55.0	9.0	E. S. E.	Moderate
Sat.	12		30.030		65.0	63.0	2.0	Southward	Light
Sun.	13		29.950		72.0	60.0	12.0	N. & W.	Moderate
Mon.	14		30.016		72.0	60.0	12.0	Westward	Fresh
Tues.	15	●	30.210		66.5	62.0	4.5	Northward	Airs
Wed.	16		30.400		67.0	59.0	8.0	Westward	Airs
Thu.	17		30.356	96.0	70.0	50.0	20.0	Southward	Airs
Fri.	18		30.300		64.0	64.0	0.0	N. & E'd	Light
Sat.	19		29.924		69.0	62.0	7.0	N. & W.	Moderate
Sun.	20		30.460		52.0	49.0	3.0	N. & E.	Fresh
Mon.	21		30.654		53.0	38.0	15.0	North	Moderate
Tues.	22	☽	30.570	80.0	59.0	51.0	8.0	Westward	Light
Wed.	23		30.400	69.0	61.0	57.0	4.0	Southwest	Light
Thu.	24		30.170		74.0	59.0	15.0	Southwest	Light
Fri.	25		30.250		70.0	52.0	18.0	Southeast	Moderate
Sat.	26		30.350	70.0	64.0	55.0	9.0	North	Airs
Sun.	27		30.242	71.0	63.0	63.0	0.0	North	Light
Mon.	28		30.022		73.0	60.0	13.0	Westward	Light
Tues.	29	○	30.070		64.0	60.0	4.0	N. & W.	Light
Wed.	30		29.860		59.0	44.0	15.0	S. & E.	Light
Thu.	31		29.950	60.0	59.0	54.0	5.0	N. & W.	Moderate
	Mean		30.228	73.55	65.22	55.16	10.06		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1839—Continued.

	9 P. M.						Registering thermometers.		Rain or snow.
	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	
		Dew point.	Difference.	Direction.	Force.				
hes.	°	°	°				°	°	Inches.
350	41.0	40.0	1.0	Northeast	Airs	Clear	57.0	36.0	
120	58.0	50.0	8.0	North	Airs	Cloudy		31.0	
950	65.0	56.0	9.0	Westward	Airs	Clear		45.0	
050	70.0	66.0	4.0	Calm	Calm	Clear	73.5	50.0	
530	55.0	45.0	10.0	Eastward	Moderate	Cloudy			
674	51.0	48.0	3.0	Northward	Moderate	Clear	70.0	50.0	
476	64.0	54.0	10.0	Calm	Calm	Clear	69.0	51.0	
260	58.0	56.0	2.0	Calm	Calm	Clear	73.0	45.0	
150	62.0	58.0	4.0	Calm	Calm	Clear	70 0	45.0	
118	65.0	57.0	8.0	Calm	Calm	Hazy	80.0	50.0	
282	61.0	57.0	4.0	East	Light	Cloudy	66.0	60.0	
030	60.0	58 0	2.0	Calm	Calm	Clear	73.0	53.0	
950	66.0	57.0	9.0	Calm	Calm	Cloudy	76.0	56.0	
062	60.0	54.0	6.0	West	Airs	L't cl'ds	75.0	58.0	
250	60 0	53 0	2.0	Calm	Calm	Cloudy	72.0	43.0	
400	56.0	56.0	0.0	North	Airs	Clear	74.0	56.0	
333	54.0	50.0	4.0	East	Airs	Clear	70.0	45.0	
250	60 0	60.0	0.0	East	Airs	Rain	76.0	46.0	1.55
930	67.0	66.0	1.0	North	Airs	Clear	66.0	60.0	
550	39.0	37.0	2.0	Northeast	Moderate	Clear	60.0	39.0	
650	53.0	45.0	8.0	Northward	Airs	Clear	55.0	32.0	
570	45.0	43.0	2.0	Northward	Airs	Clear	62.0	40.0	
350	52.0	52.0	0.0	East	Airs	Hazy	68.0	39.0	
150	62.0	62.0	0.0	Calm	Calm	Foggy	75.0	47.0	
300	65.0	58.0	7.0	S'd & E'd	Light	Hazy		59.0	
320	50.0	49.0	1.0	East	Airs	Clear	67.0	46 0	
160	53.0	53.0	0.0	Calm	Calm	Clear	65.0	45.0	
050	59.0	58.0	1.0	Northwest	Moderate	Clear	70.0	52.0	
072	59.0	55.0	4.0	Calm	Calm	Clear	69.0	52.0	
830	54.0			South	Light	Cloudy	70.0	32 0	0.03
000	55.0	50.0	5.0	N. & W.	Light	Clear	61.0	41.0	
232	57.39	53.90	3.90				68.98	46.90	1.58

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1839.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Fri.	1		30.000	36.0	33.0	3.0	N'd & W'd	Airs	Clear
Sat.	2		30.060	35.0	33.0	2 0	Northward	Airs	Clear
Sun.	3		30.044	34.0	33.0	1.0	Northwest	Airs	Haze
Mon.	4		30.080	40.0	38.0	2.0	Northeast	Moderate	Cloudy
Tues.	5		29.974	43.0	39.0	4.0	Eastward	Moderate	Cloudy
Wed.	6	●	29.550	38.5	34.0	4.5	N. & W'd	Moderate	Clear
Thu.	7		29.590	37.0	36.0	1.0	Eastward	Airs	Cloudy
Fri.	8		29 900	34.0	32.0	2.0	Westward	Fresh	Pass'g
Sat.	9		30.060	28.0	27.0	1 0	N'd & W'd	Light	Clear
Sun.	10		30.164	33.0			Westward	Moderate	Cloudy
Mon.	11		30.250	34.0			Northward	Light	Clear
Tues.	12		30 254	28.0			Northeast	Light	Haze
Wed.	13		30.100	35.0			Northward	Light	Cloudy
Thu.	14	☽	30.100	34.0			Northwest	Moderate	Cloudy
Fri.	15		29.860	54.0			S'd & W'd	Fresh	Cloudy
Sat.	16		30.180	40.0			Northwest	Moderate	Pass'g
Sun.	17		30.440	31.0			North	Airs	Clear
Mon.	18		30.140	40.0			South	Moderate	Clear
Tues.	19		29.794	40 0			Westward	Airs	Clear
Wed.	20		30.000	28.0			North	Light	Clear
Thu.	21	○	30 250	22.0			Northward	Light	Clear
Fri.	22		30.528	23.0			N'd & W'd	Moderate	Clear
Sat.	23		30.730	19.0			Calm	Calm	Clear
Sun.	24		30.450	30.0			Calm	Calm	Rain
Mon.	25		30.030	40.0			N'd & W'd	Light	Cloudy
Tues.	26		30.236	22.0			N'd & W'd	Strong	Haze
Wed.	27		30.460	16.0			Northeast	Light	Clear
Thu.	28	☾	30.290	28.0			Calm	Calm	Haze
Fri.	29		30.250	28.0			Eastward	Light	Cloudy
Sat.	30		30.210	38.0			Eastward	Moderate	Cloudy
Mean			30.134	32.95		2.38			

REMARKS.

November 9.—At 9 P. M., the ether dropped on the bulb of the hygrometer took fire, the lantern being too near at the observation. The instrument was destroyed.

November 15.—At 8*h.* 45*m.* P. M., a heavy squall of wind and rain from the northw

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1839—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.000	80 0	50.0	47.0	3.0	N'd & W'd	Airs	Clear.
30.070		52.0	48.0	4.0	North	Airs	Clear.
30.116		44.0	40.0	4.0	N'd & W'd	Moderate	Clear.
30.088		43.0	43 0	0.0	Northeast	Moderate	Mist.
29.870		48.0	48.0	0.0	N'd & E'd	Moderate	Rain.
29.550	70.0	55.0	47.0	8 0	N'd & W'd	Light	Clear.
29.650	75.0	43.0	38.0	5.0	N'd & W'd	Moderate	Clear.
29 950	60.0	45.0	38.0	7.0	N'd & W'd	Fresh	Clear.
30 082	56.0	53.0	43.0	10.0	N'd & W'd	Light	Pass'g cl'ds.
30 238		45.0	42.0	3.0	N'd & W'd	Fresh	Pass'g cl'ds.
30.324		35.0			Northwest	Light	Clear.
30.230		34.0			N'd & W'd	Light	Mist.
30.160		35.0			Northward		Cloudy.
30.050		49.0			Calm	Calm	
29.870		60.0			Eastward	Moderate	Cloudy.
30.360	75.0	55.0			Northward	Light	Clear.
30.420		43.0			South	Light	Hazy.
30.150		42.0			North	Light	Clear.
29.778		46.0			Northwest	Moderate	Pass'g cl'ds.
30.000	75.0	38.0			N'd & W'd	Moderate	Clear.
30.274		26.0			N'd & W'd	Fresh	Clear.
30.730	60.0	24.0			N'd & W'd	Light	Clear.
30.740		28.0			Northwest	Moderate	Clear.
30.250		32 0			N'd & E'd	Light	Rain.
30.018		42.0			Calm	Calm	Cloudy.
30 408		19.0			Northwest	Strong	Clear.
30.428	40.0	25.0			Westward	Light	Clear.
30.290	58.0	35 0			Calm	Calm	Clear.
30.280		38.0			Southward	Light	Cloudy.
30.190		44.0			Northeast	Moderate	Rain.
30.150	64.90	40.93					

REMARKS.

NOVEMBER, 1839—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Fri.	1		30 000		50.0	44.0	6.0	N'd & W'd	Airs	Clouds
Sat.	2		30.028	61.0	55 0	50.0	5.0	Northward	Light	Clear
Sun.	3		30.050		48.0	45.0	3.0	N'd & W'd	Moderate	Rain
Mon.	4		30.080		48.0	46.0	2.0	North	Moderate	Clouds
Tues.	5		29.600	73.0	50.0	50.0	0 0	N'd & E'd	Moderate	Rain
Wed.	6	●	29.600	60.0	65.0	54.0	11.0	Westward	Moderate	Pas'g cl'ds
Thu.	7		29.716	65.0	47.0	40.0	7 0	W. S W.	Fresh	Pas'g cl'ds
Fri.	8		30.050	65.0	45.0	35 0	10.0	N'd & W'd	Fresh	Clear
Sat.	9		30.068		45.0	37.0	8.0	N'd & W'd	Fresh	Pas'g cl'ds
Sun.	10		30.200		50.0			N'd & W'd	Fresh	Clear
Mon.	11		30.306		46.0			North	Light	Clear
Tues.	12		30.128		42.0			North	Fresh	Cloudy
Wed.	13		30.160	61.0	54.0			Calm	Calm	Clear
Thu.	14	☽	29.950		58.0			S'd & W'd	Moderate	Clear
Fri.	15		29.840		62.0			South	Moderate	Cloudy
Sat.	16		30.360		56.0			N'd & W'd	Moderate	Clear
Sun.	17		30.234	69.0	55.0			S'd & W'd	Light	Haze
Mon.	18		29.980		58.0			N'd & W'd	Light	Clear
Tues.	19		29.850	64.0	50.0			N'd & W'd	Fresh	Clear
Wed.	20		30.010		36.0			N'd & W'd	Fresh	Cloudy
Thu.	21	○	30.350		29.0			N'd & W'd	Fresh	Pas'g cl'ds
Fri.	22		30.730	52.0	32.0			N'd & W'd	Light	Clear
Sat.	23		30 650		38.0			N'd & W'd	Light	Cloudy
Sun.	24		30.100		35.0			N'd & E.	Light	Rain
Mon.	25		30.050		38.0			N'd & W'd	Fresh	Clear
Tues.	26		30.470		25.0			N'd & W'd	Moderate	Clear
Wed	27		30.300	50.0	35.0			Westward	Light	Clear
Thu.	28	☾	30.280	70.0	45.0			Northeast	Airs	Clear
Fri.	29		30.220		40.0			Southward	Airs	Cloudy
Sat.	30		30.162		45.0			Northeast	Light	Cloudy
Mean			30.116	63.63	46.00					

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1839—Continued.

9 P. M.							Registering thermometers.		Rain or snow.
Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	
		Dew point.	Difference.	Direction.	Force.				
Inches.	°	°	°				°	°	*Inches.*
30.030	42.0	40.0	2.0	N'd & E'd	Moderate	Cloudy	53.0	33.0	°
30.028	36.0	32.0	4.0	Northwest	Light	Clear		35.0	
30 080	44.0	44.0	0.0	Eastward	Light	Rain	53.0	29.0	
30.074	47.0	46.0	1 0	Eastward	Light	Cloudy	48.0	39.0	
29.550	50.0	50.0	0.0	Westward	Fresh	Cloudy	53.0	42.0	0.68
29.586	40.0	36.0	4.0	Eastward	Light	Light cl'ds		37.0	
29.850	40.0	37.0	3.0	Westward	Moderate	Clear	48,0	31.0	
30.060	35.0	31.0	4.0	N'd & W'd	Light	Clear	46.0	30.5	
30.118	33 0			Westward	Fresh	Clear	48.0	28.0	
30.226	39.0			N'd & W'd	Airs	Clear		32.0	
30.290	32.0			N'd & W'd	Airs	Clear	46.0	24.0	
30.120	38.0			Eastward	Moderate	Rain		28.0	0.12
30.120	38.0			North	Light	Cloudy		35.0	
29.958	50.0			S'd & W'd	Fresh	Cloudy	62.0	35.0	
30.000	52.0			W. N. W.	Fresh	Rain	64.0	48.0	0.19
30.400	32.0			North	Airs	Clear		32.0	
30.150	42.0			S'd & W'd	Airs	Clear	65.0	30.0	
29.862	41.0			Westward	Airs	Clear	65.0	20.0	
29.862	35.0			North	Airs	Clear	50.0	31.0	
30.080	28.0			N'd & W'd	Light	Clear	38.0	28.0	
30.462	26.0			N'd & W'd	Fresh	Clear	31.0	23.0	
30.739	24.0			Northward	Airs	Clear	35.0	18.0	
30.550	33.0			Northward	Airs	Cloudy	40.0	12.0	
30.050	40.0			Eastward	Light	Rain	41.0	30.0	4.00
30.212	26.0			W. N. W.	Fresh	Clear	45.0	25.0	
30.474	17.0			Northeast	Light	Clear	26.0	16.0	
30.300	27.0			Northward	Airs	Clear	37.0	12.5	
30.284	29.0			Calm	Calm	Clear	46.0	26.0	
30.210	40.0			Eastward	Light	Mist	45.0	26.0	
30.136	46.0			Eastward	Fresh	Cloudy	46.0	38.0	
30.128	36.78						47.18	29.18	4.990

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1839.

Days of the month.		Phases of the moon.	8 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Sun.	1		30.090	42.0			E. N. E.	Gale	Rain
Mon.	2		30.100	40.0			N. & E.	Moderate	Cloudy
Tues.	3		29 920	40.0			North	Gale	Cloudy
Wed.	4		29 836	38.0			Northward	Fresh	Cloudy
Thu.	5		30.022	40.0			Northward	Moderate	Clear
Fri.	6	●	30.076	30.0			Eastward	Airs	Clear
Sat.	7		30 048	39.0			Eastward	Airs	Cloudy
Sun.	8		29 896	45.0			West	Airs	Cloudy
Mon.	9		29.690	42.0			West	Airs	Cloudy
Tues.	10		29.690	32.0			Northwest	Light	Clear
Wed.	11		29.711	29.0			N'd & W'd	Light	Clear
Thu.	12		29.690	30.0			North	Light	Cloudy
Fri.	13	☽	30.000	31.0			North	Airs	Clear
Sat.	14		30.120	32.0			Southwest	Airs	Light cl'd
Sun.	15		29.796	32.0			Southwest	Light	Cloudy
Mon.	16		29.760	30.0			Westward	Gale	Pas'g
Tues.	17		30.008	31.0			Northwest	Fresh	Light
Wed.	18			30.0			Northwest	Light	Cloudy
Thu.	19		30.050	28.0			N. & W'd	Light	Clear
Fri.	20	○	30.186	20.0			N. & W'd	Moderate	Clear
Sat.	21		30.276	21.0			Westward	Light	Hazy
Sun.	22		29 824	29.0			Northeast	Strong	Snow
Mon.	23		29.460	30.0			N. N. W.	Fresh	Snow
Tues.	24		29.908	28.0			Variable	Airs	Cloudy
Wed.	25		30.040	30.0			Southward	Airs	Cloudy
Thu.	26		30.122	10.0			Northward	Light	Clear
Fri.	27	☾	30.110	24.0			Northward	Light	Light
Sat.	28		29.030	26.0			Southwest	Fresh	Cloudy
Sun.	29		29.460	28.0			Northwest	Moderate	Light
Mon.	30		29.836	24.0			Westward	Moderate	Pas'g
Tues.	31		30.200	15.0			Calm	Calm	Cloudy
	Mean		29.899	30.52					

REMARKS.

December 22.—Gale commenced at 0*h*. 30*m*. A. M.; continued in squalls, varying N. E. to N. N. E., at intervals; was most violent at 11 P. M.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1839—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
29.960		40.0			North	Fresh	Rain.
30.200		42.0			N'd & E.	Moderate	Clouds.
29.850		48.0			Northwest	Gale	Clouds.
29.900		40.0			Northwest	Fresh	Clouds.
30.052	80.0	45.0			North	Light	Clear.
30.100	80.0	46.0			North	Airs	Clear.
30.0[illegible]0		43.0			East	Airs	Misty.
29.850		48.0			Northwest	Light	Misty.
29.600		44.0			Westward	Moderate	Rain.
29.718	65.0	36.0			Westward	Airs	Clear.
29.840		32.0			Calm	Calm	Foggy.
29.626	62.0	33.0			Northward	Airs	Clear.
30.200		33.0			Northward	Airs	Cloudy.
30.100		37.0			Southward	Airs	Cloudy.
29.724		35.0			Westward	Moderate	Cloudy.
29.820		32.0			Westward	Gale	L't cl'ds.
30.064		33.0			Northwest	Fresh	L't cl'ds.
		31.0			N. &. W.	Moderate	Cloudy.
30.110	55.0	27.0			N & W.	Moderate	Clear.
30.220	49.0	24.0			N. & W.	Light	Clear.
30.250		24.0			Westward	Light	Cloudy.
29.568		33.0			Northeast	Fresh	Snow.
29.640		33.0			N. N. W.	Fresh	Cloudy.
29.984		32.0			Calm	Calm	L't cl'ds.
30.072	57.0	32.0			Northward	Light	Clear.
30.160	34.0	20.0			Northward	Airs	Clear.
30.100		29.0			Northeast	Light	Snow.
29.024		33.0			Westward	Fresh	Cloudy.
29.484		30.0			Westward	Moderate	Cloudy.
29.992		25.0			Westward	Moderate	Pas'g cl'ds.
30.264		20.0			Calm	Calm	Cloudy.
29.915	60.25	34.19					

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1839—Continued.

3 P. M.

Days of the month.		Phases of the moon.	Barometer.	Thermometers.		Hygrometer.		Wind.	
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.
			Inches.	°	°	°	°		
Sun.	1		29.960		42.0			Northward	Fresh
Mon.	2		30.160		40.0			Northeast	Moderate
Tues.	3		29.850		45.0			Northeast	Str'g gale
Wed.	4		30.000	65.0	49.0			W. N. W.	Fresh
Thu.	5		30.056		57.0			West	Light
Fri.	6	●	30.046		56.0			S'd & W'd	Airs
Sat.	7		29.930		44.0			Eastward	Airs
Sun.	8		29.750		48.0			Westward	Airs
Mon.	9		29.600	65.0	45.0			N'd & W.	Fresh
Tues.	10		29.710		40.0			Eastward	Light
Wed.	11		29.768		39.0			Southward	Light
Thu.	12		29.628		43.0			S'd & W'd	Fresh
Fri.	13	☽	30.200	60.0	42.0			Eastward	Airs
Sat.	14		29.980		44.0			Southeast	Light
Sun.	15		29.676		44.0			Westward	Fresh
Mon.	16		29.850		43.0			Northward	Fresh
Tues.	17		30.068		35.0			Westward	Fresh
Wed.	18		30.002		30.0			N. & W.	Moderate
Thu.	19		30.106	58.0	30.0			N. & W.	Fresh
Fri.	20	○	30.250		32.0			Westward	Moderate
Sat.	21		30.180		32.0			Southward	Airs
Sun.	22		29.396		35.0			Northeast	Fresh
Mon.	23		29.758		34.0			Northwest	Light
Tues.	24		29.958		41.0			Westward	Airs
Wed.	25		30.100	60.0	35.0			Calm	Calm
Thu.	26		30.170		38.0			Southward	Airs
Fri.	27	☾	29.630		37.0			Northward	Gale
Sat.	28		29.282		32.0			Westward	Fresh
Sun.	29		29.500		30.0			Westward	Fresh
Mon.	30		30.024	40.0	25.0			Northwest	Fresh
Tues.	31		30.230		25.0			Northeast	Light
	Mean		29.897	57.17	39.10				

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1839—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inch.*
30.072	42.0			Northward	Moderate	Rain	45.0	38.0	
30.080	39.0			E. N. E.	Moderate	Cloudy	45.0	37.0	
29.770	40.0			N. N. W.	Fresh	Rain	46.0	38.0	
30.000	44.0			N'd & W'd	Fresh	Clear	49.0	35.0	
30.048	38.0			Calm	Calm	Clear	57.0	38.0	
30.100	41.0			Calm	Calm	Cloudy	56.0	28.0	
29.930	44.0			Calm	Calm	Misty	45.0	38.0	
29.720	43.0			Westward	Airs	Rain	48.0	43.0	
29.660	40.0			Westward	Moderate	Clear	48.0	33.0	
29.710	35.0			Northwest	Airs	Clear	56.0	29.0	
29.724	35.0			Southwest	Moderate	Rain	40.0	24.0	
29.880	33.0			N'd & W'd	Light	Clear	35.0	29.0	
30.240	38.0			Southward	Light	Clear	43.0	29.0	
29 850	35.0			Southward	Fresh	Rain	45.0	28.0	0.38
29.700	33.0			N'd & W'd	Strong	Pas'g cl'ds	45.0	33.0	
29.980	32.0			West	Light	Cloudy	45.0	25.0	
30.110	30.0			Northward	Light	Cloudy	33.0	30.0	
30.010	30.0			N. & W'd	Moderate	Cloudy	33.0	28.0	
30.178	25.0			N. & W'd	Moderate	Clear	30.0	25.0	
30.250	24.0			Westward	Airs	Clear	33.0	20.0	
30.070	27.0			Northward	Strong	Cloudy	32.0	20.0	
29.250	32.0			Northwest	Moderate	Snow	35.0	22.0	*0.89
29.862	31.0			Westward	Moderate	Cloudy	35.0	26.0	
29.990	35.0			Westward	Airs	Cloudy	41.0	27.0	
30.092	19.0			Northward	Airs	Clear	35.0	19.0	
30.208	21.0			Eastward	Airs	Clear	40.0	9.0	
29.172	38.0			Eastward	Moderate	Rain	38.0	19.0	
29.450	30.0			Westward	Strong	Clear	33.0	13.0	
29.700	27.0			Westward	Gale	L't cl'ds	32.0	25.0	
30.120	18.0			Northwest	Moderate	Clear	25.0	18.0	
30.176	19.0			Northeast	Moderate	Snow	32.0	13.0	
29.907	32.84						40.48	25.87	1.27

REMARKS.

* Snow melted.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1840.

Days of the month.		Phases of the moon.	8 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Wed.	1		30.108	15.0			Northward	Moderate	Cloudy
Thu.	2		30.160	0.0			Northward	Moderate	Clear
Fri.	3		30.100	0.0			Calm	Calm	Hazy
Sat.	4	●	30.020	12.0			Calm	Calm	Cloudy
Sun.	5		30.106	20 0			Northwest	Airs	Cloudy
Mon.	6		30.100	23.0			Westward	Airs	Snow
Tues.	7		30.140	19.0			N'd & E'd	Light	Snow
Wed.	8		30.200	10.0			Northward	Light	Clear
Thu.	9		30.170	6.0			Calm	Calm	Clear
Fri.	10		29 950	13.0			Calm	Calm	Hazy
Sat.	11		29.800	28.0			Southeast	Airs	Hazy
Sun.	12	☽	30.210	25.0			Northwest	Fresh	Snow
Mon.	13		30.190	25.0			Eastward	Airs	Hazy
Tues.	14		29.970	25.0			Southward	Airs	Clear
Wed.	15		29.600	31.0			Calm	Calm	Cloudy
Thu.	16		29.960	6.0			Northwest	Fresh	Clear
Fri.	17		30.160	0.0			Northward	Airs	Clear
Sat.	18	○	30.100	6.0			Northward	Fresh	Clear
Sun.	19		30.350	5.0			Eastward	Light	Clear
Mon.	20		30 090	15.0			Southward	Light	Clear
Tues.	21		30.010	27.0			Calm	Calm	Cloudy
Wed.	22		30.010	33.0			South	Light	Cloudy
Thu.	23		29.400	33.0			South	Light	Cloudy
Fri.	24		30.100	15.0			Northwest	Light	Clear
Sat.	25		30.320	19.0			Northeast	Light	Cloudy
Sun.	26	☾	30.580	9.0			Northward	Light	Clear
Mon.	27		30.480	24.0			Southward	Light	Cloudy
Tues.	28		30.408	26.0			Eastward	Light	Cloudy
Wed.	29		30.150	30.0			Southeast	Airs	Cloudy
Thu.	30		29.600	31.0			Eastward	Light	Foggy
Fri.	31		29.946	26.0			Northward	Moderate	Clear
	Mean		30.080	17.97					

REMARKS.

January 5.—Zodiacal light visible till 7 P. M. At 7*h*. 20*m*., an extremely brilliant crossed the constellation Gemini, and exploded near α Ursa Major.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.122		17.0			North	Fresh	Cloudy.
30.188	19.0	1.0			North	Airs	Clear.
30.080		13 0			Calm	Calm	Hazy.
30.050		20.0			Southeast	Airs	Cloudy.
30.150	32.0	24 0			West	Light	Clear.
30 070		29.0			Calm	Calm	Cloudy.
30.150		30 0			Northward	Light	L't clouds.
30.220		19 0			Northward	Airs	L't clouds.
30.170	55.0	29.0			Calm	Calm	Clear.
29.990		22.0			Calm	Calm	Hazy.
29.880		35 0			Southward	Airs	Cloudy.
30.160		28.0			Northward	Fresh	Snow.
30.128		30.0			Southeast	Airs	Cloudy.
29.920		28 0			Southward	Light	Clear.
29.641		31.0			Calm	Calm	Cloudy.
30.090		7.0			Northwest	Moderate	Clear.
30.180		5.0			Northeast	Light	Hazy.
30.150	35.0	10.0			N'd & W'd	Light	Clear.
30.350		7.0			Southward	Light	Clear.
30.100		20.0			Southward	Light	Haze.
29.970		35.0			Eastward	Airs	Cloudy.
29.986		36.0			North	Airs	Cloudy.
29.440		37.0			Southwest	Moderate	Pas'g cld's.
30.180	35.0	19.0			N'd & W'd	Light	Clear.
30.450		19.0			Northward	Light	Cloudy.
30.590		11.0			Northward	Light	Clear.
30.420		28.0			Southward	Airs	Cloudy.
30 400		28.0			Northeast	Airs	Cloudy.
30.090		33 0			Calm	Calm	Fog.
29.530		47.0			S'd & W'd	Light	Fog.
30.166		28.0			Northward	Light	Cloudy.
30.097	35.20	23.42					

REMARKS—Continued.

January 12.—From 6 to 10 P. M., a very distinct halo encircled the moon. It was most distinct at 7 o'clock.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1840—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather
			Inches.	°	°	°	°			
Wed.	1		30.200	32.0	13.0			N. N. W.	Fresh	Clea
Thu.	2		30.150	25.0	12.0			N. N. W.	Light	Clea
Fri.	3		30.030	60.0	19.0			Northward	Airs	Clea
Sat.	4	●	30.050		27.0			Northward	Airs	Clou
Sun.	5		30.168	50.0	31.0			N'd & W'd	Light	Clea
Mon.	6		30.060		32.0			Calm	Calm	Clou
Tues.	7		30.162		33.0			Northwest	Moderate	Clo
Wed.	8		30.158		34.0			Westward	Moderate	Clou
Thu.	9		30.110	58.0	31.0			Calm	Calm	Clear
Fri.	10		30.000		44.0			Calm	Calm	Cloudy
Sat.	11		29.672		42.0			S'd & E'd	Light	Cloudy
Sun.	12	☽	30.180	55.0	30.0			N'd & W'd	Moderate	Clear
Mon.	13		30.046		36.0			Northward	Airs	Cloudy
Tues.	14		29.810		48.0			Southward	Airs	[illegible]
Wed.	15		29.570		31.0			N'd & W'd	Moderate	Snow
Thu.	16		30.120		15.0			Northwest	Moderate	Clear
Fri.	17		30.150		19.0			Calm	Calm	Clo
Sat.	18	○	30.300	25.0	18.0			N'd & W'd	Light	Clear
Sun.	19		30.266	38.0	29.0			Southward	Light	Clear
Mon.	20		30.068		39.0			S'd & W'd	Light	Haz
Tues.	21		30.000		43.0			Calm	Calm	Clou
Wed.	22		29.820		35.0			N'd & W'd	Light	Rain
Thu.	23		29.600	43.0	29.0			Westward	Fresh	Clear
Fri.	24		30.260		26.0			Northward	Airs	Cloudy
Sat.	25		30.250		25.0			North	Light	Clear
Sun.	26	☾	30.626		28.0			Eastward	Light	Cloud
Mon.	27		30.412		37.0			Calm	Calm	Cloud
Tues.	28		30.262		34.0			Southward	Airs	Clou
Wed.	29		29.820		40.0			Calm	Calm	Mis
Thu.	30		29.372		52.0			Southward	Light	Cle
Fri.	31		30.216		40.0			Calm	Calm	Clou
Mean			30.061	42.89	31.36					

REMARKS—Continued.

January 25.—Zodiacal light visible till 7 P. M.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1840—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inch's.*
30.188	5.0			Northwest	Light	Clear	17.0	5.0	
30.120	5.0			Northeast	Airs	Clear	14.0	—2.0	
30.050	10.0			Calm	Calm	Cloudy	22.0	—1.0	
30.060	25.0			Calm	Calm	Cloudy	27.0	10.0	
30.170	22.0			Calm	Calm	Haze	31.0	19.0	
30.076	30.0			Westward	Light	Cloudy	32.0	22.0	0.36
30.170	20 0			North	Light	Clear	33.0	20.0	
30.170	20.0			Calm	Calm	Clear	34.0	5.0	
30.060	21.0			Northward	Airs	Clear	35.0	5.0	
29.992	33.0			Calm	Calm	L't cl'ds	44.0	10.0	
29.820	33.0			Eastward	Moderate	Rain	42 0	27.0	0.48
30.250	19.0			Northeast	Airs	Clear	35 0	19.0	
30.000	33.0			Calm	Calm	Cloudy	36.0	18.0	
29.700	36 0			Southward	Moderate	Cloudy	38.0	23 0	
29.800	15.0			N. N. W.	Fresh	Clear	35.0	15.0	0.36
30.150	1.0			Northward	Airs	Clear	15.0	1.0	
30.150	11.0			N'd & E'd	Light	Snow	19.0	—2.0	Found the gauge to be leaking.
30.305	10.0			Northwest	Light	Clear	20.0	—4.0	
30.136	24.0			Southward	Moderate	Haze	30.0	4.0	
30.030	25.0			Southward	Airs	Haze	32 0	15 0	
30.056	34.0			Southward	Airs	Cloudy	45.0	26.0	
29.602	33.0			Eastward	Airs	Rain	36.0	33.0	
29.900	26.0			N'd & W'd	Light	Clear	33.0	20.0	
30.266	21.0			Eastward	Light	Cloudy	28.0	13.0	
30.536	18.0			Northward	Airs	Clear	25 0	17.0	
30.550	22.0			Southward	Light	Cloudy	28.0	8 0	
30.440	30.0			Eastward	Airs	Cloudy	37.0	22.0	
30.200	29.0			Southeast	Airs	Haze	36.0	26.0	
29.830	36.0			Calm	Calm	Fog	40.0	28.0	
29.694	36.0			W. N. W.	Strong	Clear	53.0	33.0	
30.250	29.0			North	Light	Cloudy	40.0	27.0	
30.088	22.97						32.00	14.90	

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Sat.	1		30 250	25.0			Northward	Moderate	Snow
Sun.	2		30.100	2 0			Northward	Light	Cloudy
Mon.	3	●	30.210	18.0			Calm	Calm	Clear
Tues.	4		30.310	3.0			Northwest	Moderate	Clear
Wed.	5		30.430	−4 5			Calm	Calm	Haze
Thu.	6		30.320	30.0			Southward	Moderate	Cloudy
Fri.	7		30.166	40 0			Southward	Airs	Cloudy
Sat.	8		30.202	37.0			Calm	Calm	Rain
Sun.	9		30.040	40.0			Southeast	Airs	Fog
Mon.	10	☽	29.604	48.0			Southward	Moderate	Cloudy
Tues.	11		29.862	31.0			Northwest	Fresh	Clear
Wed.	12		30.106	25.0			Northwest	Light	Clear
Thu.	13		30.150	32.0			Calm	Calm	Clear
Fri.	14		30.390	31.0			N'd & E'd	Light	Cloudy
Sat.	15		30 010	30.0			Northwest	Fresh	Clear
Sun.	16		30 502	25.0			Northward	Airs	Clear
Mon.	17	○	30.400	30.0			Calm	Calm	Haze
Tues.	18		30.300	42.0			Southward	Airs	Rain
Wed.	19		30.276	50.0			Calm	Calm	Fog
Thu	20		30.250	47.0			Southward	Light	Clear
Fri.	21		30.250	43.0			Northwest	Fresh	Clear
Sat.	22		30.4 0	40.0			Eastward	Airs	Haze
Sun.	23		30.130	52 0			Southward	Light	Haze
Mon.	24		29.998	58.0			Southward	Light	Cloudy
Tues.	25	☾	30 092	30.0			Calm	Calm	Clear
Wed.	26		30.086	30.0			Northward	Airs	Clear
Thu.	27		29.956	45.0			Southward	Airs	Haze
Fri.	28		30.200	40.0			Calm	Calm	Haze
Sat.	29		30.150	35 0			Calm	Calm	Clear
	Mean		30.189	33.02					

REMARKS.

An inch of newly fallen snow. melted without evaporation, yielded 0*in.* 115 water.

February 2.—Zodiacal light visible in the west.

February 4.—Zodiacal light visible in the west.

February 6.—Zodiacal light visible in the west.

February 13.—A lunar halo visible at the culmination.

February 14—Lightning in the northwest at 8*h.* 30*m.* P. M.

February 21.—Zodiacal light visible at 7 P. M. Altitude of the pyramid 55°; breadth at a base 15°.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.250		25.0			Northward	Fresh	Snow.
30.400	30.0	9.0			N'd & W'd	Light	Clear.
30.120		23.0			Southward	Airs	Cloudy.
30.400		10.0			Northwest	Moderate	Clear.
30.430		15.0			Calm	Calm	Haze.
30.310		33.0			Southward	Moderate	P'g clouds.
30.180		45.0			Calm	Calm	Fog.
30.124		41.0			Calm	Calm	Rain.
30.030		38.0			Eastward	Light	Fog.
29.520		52.0			Southward	Moderate	P'g clouds.
29.930	51.0	31.0			Northwest	Fresh	Clear.
30.170		35 0			Southward	Moderate	Haze.
30.282		42.0			Southward	Airs	Cloudy.
30.260		39.0			N'd & E'd	Light	Cloudy.
30.310		31.0			Northwest	Fresh	Clear.
30.550		27.0			Northward	Airs	Clear.
30.360		40.0			Calm	Calm	Haze.
30.316		46.0			Northward	Airs	Cloudy.
30.320		51.0			Calm	Calm	Fog.
30.230	63.0	58.0			Southward	Moderate	Clear.
30.450		46.0			Northwest	Airs	Clear.
30.392		42.0			Eastward	Airs	Cloudy.
30.090	69.0	60.0			Southward	Moderate	Haze.
30.140		42.0			Northwest	Moderate	Cloudy.
30.092		37.0			Northward	Airs	Cloudy.
30.074	65.0	40.0			Southwest	Moderate	Haze.
30.000		50.0			Southeast	Light	Haze.
30.220		41.0			Calm	Calm	Fog.
30.200	65.0	45.0			Calm	Calm	Haze.
30.210	57.17	37.72					

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY 1840—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Sat.	1		30.242		24.0			N'd & W'd	Moderate	Cloud
Sun.	2		30.290	60.0	25.0			Northward	Airs	Clear
Mon.	3	●	30.126	56.0	26.0			Westward	Fresh	F'g'd
Tues.	4		30.414	48.0	15.0			Westward	Fresh	Clear
Wed.	5		30.350		33.0			Southward	Light	Cloudy
Thu.	6		30.242		45.0			S. S. W.	Moderate	Clear
Fri.	7		30.250		50.0			Calm	Calm	Fog
Sat.	8		30.050		48.0			Calm	Calm	Haze
Sun.	9		29.800		41.0			Northward	Light	Rain
Mon.	10	☽	29.462		65.0			S'd & W'd	Light	F'g'd
Tues.	11		30.020	55.0	38.0			N'd & W'd	Fresh	Clear
Wed.	12		30.108		50.0			S. S. W.	Light	Lt cl'ds
Thu.	13		30.264		48.0			N'd & E'd	Light	Haze
Fri.	14		29.950		61.0			Southward	Moderate	Cloudy
Sat.	15		30.338	67.0	41.0			Westward	Moderate	Clear
Sun.	16		30.450		45.0			S'd & W'd	Moderate	Clou
Mon.	17	○	30.350		50.0			Calm	Calm	Clou
Tues.	18		30.250		55.0			Southward	Airs	Mist
Wed.	19		30.300		60.0			Calm	Calm	Fog
Thu.	20		30.100	80.0	65.0			Southward	Moderate	Clear
Fri.	21		30.468	82.0	55.0			Southeast	Light	Clear
Sat.	22		30.368		56.0			Calm	Calm	Clou
Sun.	23		29.930	75.0	65.0			Southward	Fresh	Haze
Mon.	24		30.112	78.0	49.0			W. N. W.	Moderate	Clear
Tues.	25	☾	30.088		50.0			West	Light	Clear
Wed.	26		30.000		63.0			S'd & W'd	Light	Haze
Thu.	27		30.032		57.0			Calm	Calm	Clou
Fri.	28		30.180		52.0			Calm	Calm	Clou
Sat.	29		30.200	75.0	67.0			Calm	Calm	Clou
Mean			30.163	67.60	48.24					

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1840—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inches.*
30.336	19.0			Northward	Airs	Cloudy	25.0	19.0	*0 977
30.260	20.0			Calm	Calm	Clear	25.0	1.0	
30.250	17.0			Northwest	Fresh	Clear	26.0	10.0	
30.430	4.5			Calm	Calm	Clear	15.0	3.0	
30.360	28.0			Southward	Light	Cloudy	33.0	—4.5	
30.196	40.0			Southward	Airs	Cloudy	45.0	27.0	
30.266	40.0			Calm	Calm	Rain	41.0	37.0	
30.050	42.0			Eastward	Airs	Mist	50.0	37.0	0.160
29.674	45.0			Westward	Airs	Haze	45.0	38.0	0.580
29.650	40.0			W. N. W.	Strong	Cloudy	65.0	40 0	0.090
30.060	34.0			Northwest	Fresh	Clear	40.0	21.0	
30.118	34.0			Northeast	Airs	Clear	51.0	24.0	
30.350	36.0			South	Airs	Haze	55.0	32.0	
29.742	52.0			West	Gale	Rain	65.0	35.0	0.220
30.464	33.0			Northward	Airs	Clear	51.0	29.0	
30.436	36.0			Southward	Light	Cloudy	48.0	22.0	
30.340	44.0			South	Airs	Rain	55.0	30.0	0.480
30.250	53.0			Calm	Calm	Fog	55.0	41.0	
30.300	53.0			Calm	Calm	Clear	61.0	49.0	
30.106	60.0			W. S. W.	Fresh	Rain	67.0	47.0	0.020
30.498	43.0			Southward	Airs	Clear	61.0	41.0	
30.200	55.0			Southward	Moderate	Haze	59.0	36.0	
29.910	58.0			Southward	Moderate	Cloudy	67.0	52.0	
30.100	36.0			Northwest	Light	Clear	63.0	36.0	
30.100	36.0			Calm	Calm	Clear	50.0	28.0	
29.914	53.0			Southward	Fresh	Haze	63.0	27.0	
30.144	44.0			Eastward	Moderate	Clear	58.0	42.0	0.080
30.050	38.0			Southward	Light	Clear	52.0	38.0	
30.140	47.0			Eastward	Airs	Clear	69.0	35.0	
30.162	39.33						50.34	30.09	2.597

REMARKS.

* Melted snow.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		W
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Sun.	1		30.070	40.0			Southward	Airs	Clear
Mon.	2		30.150	42.0			S. & W.	Airs	Clear
Tues.	3	●	29.750	51.0			Calm	Calm	Foggy
Wed.	4		29.882	55.0			Calm	Calm	Hazy
Thu.	5		29.580	42.0			Westward	Gale	Clear
Fri.	6		29.900	31.0			N. & W.	Light	Clear
Sat.	7		29.850	30.0			Westward	Light	Clear
Sun.	8		30.000	25.0			Northwest	Light	Clear
Mon.	9		29.660	35.0	33.0	2.0	South	Moderate	Hazy
Tues.	10	☽	29.500	31.0	31.0	0.0	Westward	Light	Clear
Wed.	11		29.826	23.0			North	Fresh	Clear
Thu.	12		30.100	22.0			Northeast	Airs	Light clo
Fri.	13		29.950	28.0			Calm	Calm	Clear
Sat.	14		30.360	29.0	25.0	4.0	West	Light	Clear
Sun.	15		30.100	35.0	35.0	0.0	East	Light	Rain
Mon.	16		29.840	43.0	43.0	0.0	East	Light	Rain
Tues.	17	○	29.712	44.0	44.0	0.0	Calm	Calm	Rain
Wed.	18		30.000	43.0	43.0	0.0	Calm	Calm	Cloudy
Thu.	19		30.010	42.0			East	Light	Misty
Fri.	20		29.936	46.0	46.0	0.0	Northeast	Light	Misty
Sat.	21		30.130	40.0	40.0	0.0	Northeast	Light	Rain
Sun.	22		30.316	27.0	26.0	1.0	Northward	Moderate	Clear
Mon.	23		30.250	32.0	32.0	0.0	Southeast	Moderate	Snow
Tues.	24		29.550	35.0	35.0	0.0	Northeast	Light	Rain
Wed.	25	☾	29.500	35.0	33.0	2.0	Northwest	Moderate	Cloudy
Thu.	26		29.730	27.0			Northwest	Fresh	Clear
Fri.	27		29.940	40.0			South	Moderate	Light c
Sat.	28		30.020	49.0			South	Airs	Light c
Sun.	29		30.016	55.0	55.0	0.0	South	Moderate	Light r
Mon.	30			40.0	36.0	4.0	Northwest	Fresh	Clear
Tues.	31		29.830	40.0	36.0	4.0	Northwest	Fresh	Clear
Mean			29.916	37.97	37.06	1.06			

REMARKS.

March 4.—At 9*h*. P. M., wind hauling to the westward, freshening. At 10*h*. 45*m*., r commenced from west by south.

March 5.—At 11*h*. P. M., observed the aurora borealis, it was but little extended in alti or azimuth.

March 10.—At 4*h*. 50*m*. P. M., a gale commenced from north by west.

March 15.—At 9*h*. 40*m*. P. M., the moon was encompassed by a halo of divers colors.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.072		52.0			Southward	Light	Cloudy.
29.970		55.0			Southward	Airs	Hazy.
29.800		60.0			Calm	Calm	Foggy.
29.840	67.0	58.0			Southward	Light	Hazy.
29.758		45.0			N. & W.	Strong	Clear.
29.890	65.0	49.0			S. & W.	Moderate	Clear.
29.720		47.0			Southward	Light	Light clouds.
30.070	61.0	31.0			Southeast	Airs	Clear.
29.500	63.0	46.0	45.0	1.0	Southeast	Light airs	Clear.
29.500	74.0	49.0	45.0	4.0	Southward	Light airs	Clear.
30.002		24.0			Northwest	Strong	Clear.
29.980		37.0			Southeast	Airs	Cloudy.
30.020	58.0	38.0	28.0	10.0	Westward	Fresh	Hazy.
30.296	59.0	40.0			Westward	Light	Hazy.
29.950		41.0	41.0	0.0	East	Airs	Cloudy.
29.882		46.0	45.0	1.0	Northeast	Light	Cloudy.
29.612		50.0	50.0	0.0	West	Light	Cloudy.
30.050		49.0	48.0	1.0	Calm	Calm	Cloudy.
30.020		43.0			Eastward	Light	Misty.
30.018		49.0	48.0	1.0	Northeast	Airs	Cloudy.
30.180		45.0	42.0	3.0	Westward	Airs	Cloudy.
30.422	64.0	32.0			North	Moderate	Clear.
30.140		38.0	38.0	0.0	Southeast	Moderate	Misty.
29.560		38 0	38.0	0.0	N. & E.	Light	Rain.
29.500		36.0			Northwest	Moderate	Cloudy.
29.810	62.0	34.0			Northwest	Fresh	Clear.
30.024		49.0	43.0	6.0	South	Moderate	Cloudy.
30.094		51.0	51.0	0.0	South	Airs	Rain.
29.970		60.0	60.0	0.0	S. S. E.	Light	Misty.
29.636		65.0	64.0	1.0	South	Fresh	Cloudy.
29.950	59.0	40.0	35.0	5.0	Northwest	Fresh	Pas'g clouds.
29.911	63.20	44.97	45.00*	2.06			

REMARKS—Continued.

ediately contiguous to the disc there was a white haze, which became yellow, and finally a rk brown, as the distance from the planet increased, but the shades having no distinct boundies. Surrounding this was a space, perfectly well defined on both edges, of an ultramarine lor, which, in its turn, was encircled by another of crimson, less distinct, but perfectly ap-

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* This result is caused, as will be perceived, by want of observations of the "dew point."

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		W
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Wed.	1		30.030	38.0			S. by West	Airs	Cloudy
Thu.	2	●	30.290	30.0			West	Moderate	Clear
Fri.	3		30.262	38.0	37.0	1.0	S. by W.	Light	Clear
Sat.	4		30.006	48.0			S. by W.	Moderate	Clear
Sun.	5		29.998	46.0	32.0	14.0	S. & E.	Light	Cloud
Mon.	6		30.178	50.0	42.0	8.0	Northeast	Light	Cloud
Tues.	7		30.290	37.0	33.0	4.0	Northeast	Light	Hazy
Wed.	8		30.320	32.0	28.0	4.0	Northeast	Light	Cloud
Thu.	9	☽	30.400	30.0	28.0	2.0	East	Light	Clear
Fri.	10		30.350	40.0	36.0	4.0	Calm	Calm	Clear
Sat.	11		30.190	47.0	40.0	7.0	Calm	Calm	Clear
Sun.	12		30.040	62.0	60.0	2.0	S. S. W.	Moderate	Cloudy
Mon.	13		30.136	43.0	39.0	4.0	W. N. W.	Gale	Clear
Tues.	14		30.290	34.0	32.0	2.0	Calm	Calm	Clear
Wed.	15		30.050	53.0	51.0	2.0	Calm	Calm	Cloud
Thu.	16	○	30.050	39.0	38.0	1.0	Calm	Calm	Clear
Fri.	17		30.032	46.0	42.0	4.0	S. S. W.	Light	L't cl
Sat.	18		29.920	58.0	54.0	4.0	S. S. W.	Moderate	L't clo
Sun.	19		30.050	56.0	51.0	5.0	N. W.	Light	Cloud
Mon.	20		30.197	44.0	42.0	2.0	Calm	Calm	Clear
Tues.	21		30.400	44.5	38.0	6.5	Northeast	Moderate	Clear
Wed.	22		30.310	46.0	43.0	3.0	Calm	Calm	Cloud
Thu.	23		29.898	58.0	56.0	2.0	Southeast	Moderate	Cloudy
Fri.	24	☾	29.930	61.0	61.0	0.0	South	Light	Rain
Sat.	25		29.990	61.0	60.0	1.0	Variable	Light	Clear
Sun.	26		29.898	66.0	63.0	3.0	South	Moderate	Clear
Mon.	27		30.020	47.0	40.0	7.0	Northwest	Moderate	Clear
Tues.	28		30.450	44.0	39.0	5.0	S'd & E'd	Moderate	Clear
Wed.	29		30.240	55.0	55.0	0.0	S'd & E'd	Moderate	Rain
Thu.	30		29.832	63.0	63.0	0.0	S'd & W'd	Light	Cloud
	Mean		30.035	47.20	39.89	3.61			

REMARKS.

April 1.—At 2*h*. 30*m*. P. M., the wind hauled to the northward and westward, and strong gale, accompanied with heavy rain; at 3*h*. 30*m*. moderated.

April 7.—A lunar halo from 9*h*. 30*m*. to 10*h*. 30*m*. P. M.

April 11.—At 6*h*. 30*m*. P. M., heavy rain from the southward and eastward, with th and lightning.

April 12.—5 P. M., the wind shifted suddenly to the northwest, with violent rain, hail, der, and lightning; hauled to the southward again, and at sunset changed again to north with violence.

April 14.—At 9 P. M., a lunar halo, diameter 44° 36′; at 10, cloudy.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.030		46.0	40.0	6.0	S. & W.	Moderate	F'g clouds.
30.450	67.0	40.0	27.0	13.0	Northwest	Moderate	Clear.
30.228	72.0	50.0	41.0	9.0	South	Moderate	Clear.
29.900	73.0	59.0	54.0	5.0	Southward	Moderate	F'g clouds.
30.188	62.0	55.0	27 0	28.0	W. N. W.	Moderate	F'g clouds.
30.240	52 0	43.0	37.0	11.0	Northeast	Moderate	Cloudy.
30.344	62.0	42.0	35.0	7.0	North	Moderate	L't clouds.
30.350	54.0	43.0	28.0	15.0	Northeast	Moderate	L't clouds.
30.462	64.0	41.0	29.0	12.0	Eastward	Light	Clear.
30.386	80.0	57.0	46.0	11.0	South	Light	Clear.
30.246	68.0	65.0	54.0	11 0	S. S. W.	Moderate	F'g clouds.
29.990	80.0	71.5	62.0	9.5	S. S. W.	Moderate	F'g clouds.
30.292	69.0	48.0	43.0	5.0	W. N. W.	Fresh	L't clouds.
30.356	64.0	53.0	44.0	9.0	South	Airs	L't clouds.
30.100		55.0	55.0	0.0	Calm	Calm	Rain.
30.124	78.0	55.5	49.0	6.5	Calm	Calm	Clear.
30.091	84.0	62.5	56.0	6.5	S. by E.	Moderate	Clear.
29.910	88.0	68.0	44.0	24 0	S. & W.	Moderate	Clear.
30.184		56.0	48.0	8.0	North	Moderate	Cloudy.
30.248	76.0	64.0	44.0	20.0	Calm	Calm	Clear.
30.456	73.0	51.0	40.0	11.0	Northwest	Moderate	Clear.
30.298		54.0	42.0	12.0	Northwest	Moderate	Cloudy.
29.951	77.0	55.0	46.0	9.0	S. & E.	Light	Cloudy.
29.972		64.0	64.0	0.0	S'd & W'd	Light	Rain.
30.170	92.0	72.0	55.0	17.0	Calm	Calm	Clear.
29.932	90.0	75.0	66.0	9.0	South	Light	Clear.
30.340	73.0	58.0	44.0	14.0	West	Light	Clear.
30.520	76.0	57.0	40.0	17.0	S. & E'd	Light	Clear.
30.188		61.0	61.0	0.0	Calm	Calm	Rain.
29.940	88.0	77.0	50.0	27.0	West	Fresh	Clear.
30.192	73.42	56.75	45.70	11.05			

REMARKS—Continued.

April 23.—At 10 P. M., a violent squall of wind and rain from northwest, accompanied by thunder and lightning.

April 25.—At 4 P. M., heavy squalls of wind and rain from the southward and eastward, attended with vivid flashes of lightning and peals of thunder. During the squall, the electric fluid struck within half a mile.

April 26.—At 4*h.* 15*m.* P M., violent squall from W N W., with rain, thunder, and lightning. Lightning struck the northwest corner of the house, and divided itself apart, passing off by the conductor, and a part running down by the bell wires, between the two houses, more than thirty feet from the original point where it struck. Wind changed to the southward again,

APRIL, 1840—Continued.

Days of the month.	Phases of the moon.	3 P. M.							
			Thermometers.		Hygrometer.		Wind.		
		Barometer.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.
		Inches.	°	°	°	°			
Wed. 1		30.030		48.0	45.0	3.0	N. & W.	Gale	Cloudy
Thu. 2	●	30.384	67.0	59.0	41.0	18.0	South	Light	F'g clouds
Fri. 3		30.126	81.0	66.0	42.0	24.0	S. S. W.	Moderate	Clear
Sat. 4		29.930	81.0	69.0	50.0	19.0	N. & W'd	Fresh	Clear
Sun. 5		30.054	84.0	64.0	35.0	29.0	N. & W'd	Fresh	Clear
Mon. 6		30.218		56.0	54.0	2.0	N. & E'd	Moderate	Cloudy
Tues. 7		30.294	72.0	52.0	32.0	20.0	N. & W'd	Moderate	Clear
Wed. 8		30.280	68.0	52.0	35.0	17.0	East	Moderate	L't clouds
Thu. 9	☽	30.454	78.0	54.0	32.0	22.0	N. & W.	Moderate	Clear
Fri. 10		30.276	86.0	67.0	38.0	29.0	S. & E.	Moderate	Clear
Sat. 11		30.150	94.0	77.0	58.0	19.0	S. & W'd	Moderate	P'g clouds
Sun. 12		29.820	92.0	77.0	44.0	33.0	S. S. W.	Moderate	P'g clouds
Mon. 13		30.300	80.0	55.0	52.0	3.0	West	Fresh	F'g clouds
Tues. 14		30.121		58.0	38.0	20.0	Eastward	Moderate	Cloudy
Wed. 15		30.070		68.0	56.0	12.0	Calm	Calm	Cloudy
Thu. 16	○	30.117	88.0	68.0	38.0	30.0	S. & W'd	Moderate	Clear
Fri. 17		29.974	93.5	71.0	56.0	15.0	Southward	Moderate	Clear
Sat. 18		29.840	78.0	77.0	62.0	15.0	S. & E.	Moderate	Clouds
Sun. 19		30.584	78.0	64.0	40.0	24.0	N. & W.	Moderate	Clear
Mon. 20		30.246	79.0	69.0	54.0	15.0	S. & W.	Moderate	L't clouds
Tues. 21		30.305	78.0	67.0	46.0	21.0	N. & W.	Moderate	Clear
Wed. 22		30.527		58.0	56.0	2.0	S. & E.	Moderate	Clouds
Thu. 23		29.950		84.0	64.0	20.0	S. & W.	Light	Cloudy
Fri. 24	☾	29.972		70.0	70.0	0.0	S. & W'd	Light	Rainy
Sat. 25		30.208	92.0	87.0	60.0	27.0	Calm	Calm	Cloudy
Sun. 26		29.800	89.0	95.0	70.0	15.0	S. & W.	Fresh	L't clouds
Mon. 27		30.320	83.0	56 0	40.0	16.0	Westward	Moderate	Clear
Tues. 28		30.450		65.0	48.0	17.0	S. & W'd	Moderate	Cloudy
Wed. 29		29.970		65.0	65.0	0.0	West	Airs	Rain
Thu. 30		29.942	92.0	70.0	50.0	20.0	Westward	Fresh	Clear
Mean		30.157	82.57	65.76	48.76	17.00			

REMARKS—Continued.

after the rain. At 10*h*. 45*m*., the wind hauled suddenly to the northwest, and blew a violent gale till 2 A. M.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1840—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
nches.	°	°	°				°	°	Inch's.
0 140	40.0			W. N. W.	Strong	Clear	59.0	38.0	0.04
0.308	39.0			S. by W.	Light	Clear	55.0	29.0	
0.050	52.0			S. by W.	Fresh	Clear	67.0	34.0	
9.930	58.0	30.0	28.0	W. N. W.	Light	Clear	71.0	39.0	
0.110	55.0	36.0	19.0	North	Light	Clear	68.0	46.0	
0.208	42.0	40.0	2.0	Calm	Calm	Cloudy	49.0	35.0	
0.296	38.0	28.0	10.0	Calm	Calm	L't cl'ds	52.0	32.0	0.01
0.342	40 0	30.0	10.0	East	Moderate	L't cl'ds	55.0	30.0	
0 386	50.0	42.0	8.0	South	Light	Cloudy	57.0	29.0	
0.264	55.0	45.0	10.0	South	Light	Clear	70.0	40.0	
0.094	63.0	60.0	3.0	S. & E.	Moderate	Cloudy	80.0	47.0	0.42
9.990	57.0	54.0	3.0	Northwest	Fresh	P'g cl'ds	77.0	43.0	0.54
0.360	45.5	40.0	5.5	Calm	Calm	Clear	60.0	34.0	
0.118	55.0	51.0	4.0	S. S. E.	Light	L't cl'ds	65.0	51.0	
0.096	50.0	48.0	2.0	South	Light	Clear	61.0	39.0	0.03
0.054	56.0	51.0	5.0	S. & E'd	Moderate	Clear	68.0	36.0	
9.956	60.0	54 0	6.0	South	Moderate	Clear	75.0	46.0	
9.874	70.0	64.0	6.0	S. & W	Light	Cloudy	77.0	54.0	
0.246	52.0	50.0	2.0	Calm	Calm	Clear	69.0	42.0	
0.254	54 0	46.0	8.0	N. & W.	Light	Clear	82.0	40.0	
0.364	50.0	46.0	4.0	North	Light	Clear	74.0	44.0	
9.948	59.0	59.0	0.0	S. & E'd	Light	Rain	62.0	46.0	0.25
9.934	67.0	67.0	0.0	S. & W.	Light	Rain	87.0	58.0	0.60
9.996	69.0	56.0	13.0	Calm	Calm	Clear	82.0	61.0	
0 000	68.0	68.0	0.0	Variable	Variable	Rain	86.0	61.0	0.50
9.778	71.0	71.0	0.0	S. & W'd	Light	Cloudy	83.0	66.0	0.29
0 392	61.0	44.0	17.0	S. & W.	Light	Clear	64.0	46.0	
0.352	60.0	60 0	0.0	S. & E'd	Moderate	Rain	65.0	44.0	0.64
9.818	61.0	61.0	0.0	S. & W'd	Moderate	Rain	65.0	54.0	0.60
9.912	64.0	50.0	14.0	S. & E'd	Moderate	Clear	79.0	57.0	
0.118	55 37	50.04	6.65				72.10	44.03	3.92

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Fri.	1	●	29.850	62.0	48.0	14.0	Southwest	Light	F'g c
Sat.	2		29.900	60.0	47.0	13.0	Southwest	Light	Clear
Sun.	3		29.824	63.0			Southwest	Light	Clear
Mon.	4		29.440	62.0	60.0	2.0	Southwest	Light	Cloud
Tues.	5		29.674	50.0	40.0	10.0	N. & W.	Light	Clear
Wed.	6		29.981	56.0	40.0	16.0	Westward	Light	Clear
Thu.	7		30.000	52.0	43.0	9.0	Westward	Light	Clear
Fri.	8	☽	29.952	54.0	42.0	12.0	Westward	Light	Cloud
Sat.	9		29.682	44.0	44.0	0.0	N. & W.	Fresh	Rain
Sun.	10		29.736	41.0	41.0	0.0	N. & E.	Moderate	Rain
Mon.	11		29.950	50.0	47.0	3.0	N'd & W'd	Light	Clear
Tues.	12		30.500	54.0	44.0	10.0	S'd & W'd	Light	Clear
Wed.	13		30.300	55.0	42.0	13.0	Westward	Light	Clear
Thu.	14		30.120	56.0	45.0	11.0	Calm	Calm	Clear
Fri.	15		30.514	58.0	50.0	8.0	Calm	Calm	Clear
Sat.	16	○	30.054	60.0	55.0	5.0	Calm	Calm	Cloud
Sun.	17		30.254	61.0	57.0	4.0	Calm	Calm	Clear
Mon.	18		30.184	65.0	62.0	3.0	Westward	Light	Clear
Tues.	19		30.541	62.0	60.0	2.0	S'd & W'd	Light	Clear
Wed.	20		29.986	57.0	57.0	0.0	Eastward	Fresh	Rain
Thu.	21		29.780	59.0	59.0	0.0	N'd & E'd	Light	Cloud
Fri.	22		29.800	58.0	53.0	5.0	Westward	Light	Clear
Sat.	23		29.996	64.0	56.0	8.0	Westward	Light	Clear
Sun.	24	☾	30.112	62.0	62.0	0.0	Eastward	Light	Rain
Mon.	25		30.350	63.0	63.0	0.0	S'd & E'd	Light	Cloud
Tues.	26		30.330	53.0	53.0	0.0	S'd & E'd	Light	Cloud
Wed.	27		30.168	58.0	50.0	8.0	S'd & E'd	Light	Cloud
Thu.	28		29.988	63.0	56.0	7.0	S'd & E'd	Light	Clear
Fri.	29		29.876	60.0	60.0	0.0	S'd & E'd	Light	Rain
Sat.	30		29.864	58.0	58.0	0.0	S'd & E'd	Light	Rain
Sun.	31	●	29.932	61.0	56.0	5.0	Westward	Light	Clear
	Mean		30.021	57.45	51.67	5.78			

REMARKS.

May 3.—Squalls of rain and wind from the southward and westward at intervals.
May 4.—Wind from the southward and westward; very fresh, and in puffs.
May 5.—Fresh wind from the northward and westward, and clear.
May 8.—Strong wind from the southward and eastward, with heavy rain.
May 9.—Wind hauled to the northward and eastward, fresh, with rain; and at 10 A. M. wind from the northward and eastward, in puffs, with rain.
May 23.—Latter part, rain, accompanied with lightning and thunder.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
29.668	82.0	73.0	50.0	23.0	S'd & W'd	Light	F'g cl'ds.
29.932	92.0	62.0	48.0	14.0	Southward	Light	Clear.
29.830	87.0	66.0	50.0	16.0	Calm	Calm	Clear.
29.302	92.0	76.0	56.0	20.0	S'd & W'd	Moderate	Clear.
29.798	74.0	53.0	40.0	13.0	N'd & W'd	Fresh	Clear.
29.996	76.0	52.0	42.0	10.0	N'd & W'd	Fresh	Clear.
30.240	79.0	55.0	42.0	13.0	Westward	Moderate	Clear.
29.968		53.0			N'd & E'd	Light	Cloudy.
29.602		46.0	46.0	0.0	N'd & E'd	Moderate	Rain.
29.812		43.0	43.0	0.0	N'd & E'd	Light	Rain.
29.996	79.0	54.0	40.0	14.0	Westward	Light	Clear.
30.624	85.0	59.0	46.0	13.0	S'd & W'd	Light	Clear.
30.180	85.0	58.0	42.0	16.0	N'd & W'd	Light	Clear.
30.154	88.0	64.0	46.0	18.0	Westward	Airs	Clear.
30.480		65.0	61.0	4.0	S'd & W'd	Light	Cloudy.
30.144	94.0	72.0	67.0	5.0	S'd & E'd	Light	Clear.
30.292	94.0	74.0	70.0	4.0	Calm	Calm	Calm.
30.176	94.0	76.0	70.0	6.0	S'd & W'd	Light	Clear.
30.508	95.0	75.0	73.0	2.0	S'd & W'd	Light	Clear.
29.944		60.0	60.0	0.0	N'd & E'd	Fresh	Rain.
29.720		67.0	67.0	0.0	Westward	Light	Cloudy.
29.900	89.0	68.0	58.0	10.0	Westward	Light	Clear.
30.036	90.0	69.0	65.0	4.0	Southward	Light	Clear.
30.184		64.0	64.0	0.0	S'd & E'd	Light	Rain.
30.400	88.0	69.0	63.0	6.0	S'd & E'd	Moderate	Clear.
30.342		63.0	63.0	0.0	N'd & E'd	Moderate	Cloudy.
30.140	82.0	64.0	60.0	4.0	N'd & E'd	Moderate	Hazy.
29.964	84.0	76.0	64.0	12.0	Calm	Calm	Hazy.
29.832		63.0	63.0	0.0	S'd & E'd	Light	Rain.
29.916		69.0	69.0	0.0	S'd & E'd	Moderate	Cloudy.
29.940	98.0	78.0	66.0	12.0	Westward	Light	Clear.
30.040	86.90	64.07	57.13	6.94			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1840—Continued.

Days of the month	Phases of the moon	3 P. M.							
		Barometer.	Thermometers.		Hygrometer.		Wind.		W
			Sun	Dry.	Dew point.	Difference.	Direction.	Force.	
		Inches.	°	°	°	°			
Fri. 1	●	29.700	84.0	67.0	48.0	19.0	Northwest	Fresh	Pleas
Sat. 2		29.868	85 0	70.0	63 0	7 0	S. & W.	Moderate	Clear
Sun. 3		29.752		63.0	63.0	0.0	S. & W.	Light	Rain
Mon 4		29.387	78 0	65.0	48.0	17.0	S. & W.	Fresh	Fg cl
Tues. 5		29.802	82 0	64 0	40.0	24.0	N. & W.	Fresh	Clear
Wed. 6		29.957	82.0	62.0	38 0	24.0	West	Moderate	Clear
Thu. 7		29.790	86.0	65.0	38.0	27.0	N. & W.	Moderate	Clear
Fri. 8	☽	29.900		50.0	50.0	0.0	S. & E	Moderate	Rain
Sat. 9		29.642		49 0	49.0	0 0	N. & E.	Fresh	Rain
Sun. 10		29.820		50 0	50.0	0.0	N. & E.	Moderate	Rai
Mon. 11		30 022		62.0	56.0	6.0	Westward	Airs	Fg cl'ds
Tues. 12		30.720	90.0	66 0	44 0	22.0	Westward	Airs	Clear
Wed. 13		30.190	90.0	63.0	36.0	27.0	N. & W.	Light	Clear
Thu. 14		30.118	90.0	76.0	55.0	21.0	S. & W.	Moderate	Clear
Fri. 15		30.000		81.0	65.0	16.0	S & W.	Moderate	Clou
Sat. 16	○	30.160	104.0	82.0	60.0	22 0	Calm	Calm	Clear
Sun. 17		30.246	105.0	83.0	60 0	23.0	S. & W.	Moderate	Clear
Mon. 18		30.100	102.0	85.0	68.0	17.0	S. & W.	Light	Clear
Tues. 19		30.440	98.0	85.0	66.0	19.0	S'd & E'd	Moderate	Fg
Wed. 20		29 850		68 0	68.0	0.0	N. & E.	Moderate	Clou
Thu. 21		29.636		70.0	65 0	5.0	Westward	Light	Fg cl
Fri. 22		29 920	94.0	75.0	45 0	30 0	N. & W.	Light	Lt cl
Sat. 23		30.051	90.0	76.0	64.0	12.0	South	Light	Fg cl
Sun. 24	☾	30.234		68.0	68.0	0.0	S. & E.	Light	Rai
Mon. 25		30.400	88.0	72 0	45.0	27.0	S. & W.	Moderate	Haz
Tues. 26		30.262	92.0	72.0	65.0	7.0	S. & E.	Moderate	Clear
Wed. 27		30.058	88 0	77.0	60.0	17.0	S. & E.	Light	Haz
Thu. 28		29 900	88 0	80.0	58.0	22.0	S. & E.	Light	Clou
Fri. 29		29 798		79.0	79.0	0.0	S. & E.	Light	Driz
Sat. 30		30.000	100.0	75 0	65.0	10.0	North	Light	Lt cl
Sun. 31	●	29.916	104.0	83.0	65.0	18 0	West	Moderate	Clear
Mean		29.988	91.43	70.42	56.26	14.16			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1840—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inches.*
29 805	63.0	49.0	14.0	S. & W.	Light	Clear	78.0	54.0	
29.836	67.0	44.0	23.0	S. & W.	Light	Clear	76.0	46.0	
29.520	67.0	60.0	7.0	S. & W.	Fresh	Cloudy	77.0	63.0	0.04
29.596	65.0	52.0	13.0	S. & W.	Moderate	Clear	61.0	44.0	
29.934	61.0	42.0	19.0	Southward	Light	Clear	66.0	42.0	
29.950	59.0	46.0	13.0	Southwest	Light	Clear	68.0	37.0	
29.964	55.0	41.0	14.0	Westward	Light	Clear	72.0	49.0	
29.772	53.0	53.0	0.0	N. & E.	Fresh	Rain	58.0	44.0	0.85
29.676	51.0	51.0	0 0	N. & E.	Moderate	Rain	49.0	41.0	0.06
29.906	50.0	50.0	0.0	N. & E.	Light	Clear	65.0	41.0	0.02
30.800	55.0	48.0	7.0	S. & W.	Airs	Clear	72.0	61.0	
30.400	60.0	50.0	10.0	Westward	Airs	Clear	66.0	54.0	
30.120	61.0	50.0	11.0	Westward	Airs	Clear	83.0	35.0	
30.522	60.0	50.0	10.0	Calm	Calm	Clear	86.0	37.0	
29.948	69.0	66.0	3.0	Calm	Calm	Cloudy	91.0	36.0	
30.196	69.0	68.0	1.0	S. & E.	Airs	Clear	92.0	45.0	
30.196	71.0	67.0	4.0	Calm	Calm	Clear	93.0	55.0	
30 572	70.0	65.0	5.0	Calm	Calm	Clear	85.0	62.0	
30.200	69.0	67.0	2.0	S. & E.	Airs	Hazy	84.0	66.0	
29.820	64.0	64 0	0.0	N. & E.	Moderate	Rain			0.09
29.724	60.0	56 0	4.0	Westward	Light	Clear	77.0	60.0	0.50
29.958	69.0	58.0	11.0	Southward	Light	Cloudy	81.0	64.0	
30.056	68.0	68.0	0.0	S. & E.	Light	Rain	82.0	62.0	
30,282	66.0	64 0	2.0	Calm	Calm	Clear	73.0	62.0	0 02
30.372	57.0	50.0	7.0	S. & E'd	Fresh	Clear	75.0	53.0	
30.212	62.0	57.0	5.0	S. & E'd	Light	Clear	74.0	55.0	
30.012	64.0	60.0	4.0	S. & E'd	Light	Clear	77.0	57.0	
29.952	68.0	68.0	0.0	Calm	Calm	Cloudy	78.0	62.0	0.45
29.832	68.0	65.0	3.0	S. & E'd	Light	Cloudy	79.0	43.0	0.07
29.928	69.0	65.0	4.0	Calm	Calm	Clear			
29.936	71.0	66.0	5.0	Westward	Light	Clear	92.0	62.0	
30.016	63.26	56.77	6.49				76.08	51.45	2.06

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		W
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Mon.	1		29.950	63.0	52.0	11.0	Westward	Light	Clear
Tues.	2		29.950	64.0	58.0	6.0	N'd & E'd	Fresh	Clou
Wed.	3		29.950	63.0	63.0	0.0	Eastward	Light	Rain
Thu.	4		29.700	68.0	68.0	0.0	S'd & E'd	Light	Rai
Fri.	5		29.800	60.0	55 0	5.0	S'd & E'd	Light	Clear
Sat.	6	☽	29.900	61.0	56.0	5 0	S'd & E'd	Light	Clear
Sun.	7		29.924	58.0	58.0	0.0	N'd & W'd	Light	Rain
Mon.	8		30.030	52.0	50.0	2.0	N'd & W'd	Light	Clear
Tues.	9		30 300	60.0	52.0	8.0	Westward	Light	Clear
Wed.	10		30.300	61.0	54.0	7.0	Westward	Light	Clear
Thu.	11		30.266	63.0	54.0	9.0	Westward	Light	Clear
Fri.	12		30.062	67.0	56 0	11.0	Westward	Light	Clea
Sat.	13		29.924	66.0	60.0	6.0		Light	Haz
Sun.	14	○	30.072	68.0	60.0	8.0	Northward	Light	Clear
Mon.	15		29.980	69.0	67.0	2.0	S'd & E'd	Light	Clou
Tues.	16		30.100	58.0	52.0	6.0	Westward	Light	Haz
Wed.	17		30.200	59.0	53.0	6.0	Westward	Light	Clea
Thu.	18		30.150	58.0	54.0	4.0	S'd & E'd	Light	Clou
Fri.	19		29.986	60.0	52 0	8.0	N'd & W'd	Light	Cle
Sat.	20		29.876	56.0	48.0	8.0	N'd & W'd	Fresh	Cle
Sun.	21		29.950	62.0	54.0	8.0	Westward	Light	Cle
Mon.	22	☾	29.900	66.0	55.0	11.0	Southward	Light	Clear
Tues.	23		30.120	70.0	63 0	7.0	S'd & E'd	Light	Clou
Wed.	24		30.216	68.0	60.0	8.0		Light	Fog
Thu.	25		30.100	70.0	65.0	5.0	S'd & E'd	Light	Haz
Fri.	26		29.910	68.0	68.0	0.0	S'd & E'd	Light	Clou
Sat.	27		29.958	60.0	60.0	0.0	S'd & E'd	Light	Clo
Sun.	28		29.982	68.0	60.0	8.0	Westward	Light	Cle
Mon.	29	●	29.980	72.0	72.0	0.0	S'd & E'd	Light	Cl
Tues.	30		29.934	73.0	70.0	3.0	Westward	Light	Cle
Mean			30.016	63.70	57.64	6.06			

REMARKS.

June 3.—At 11 A. M., heavy shower of rain.

June 6.—At 6 P. M., the wind shifted from the southward to northward and westw heavy squalls of wind and rain. During the night, heavy rain, accompanied with thun lightning.

June 9.—Semidiameter of a halo around the moon, 21° 40′, at 9*h*. 15*m*. P. M.; ve in its appearance.

June 18.—At 5 P. M., the wind shifted from the southward to northward and wes with heavy squalls of wind and light rain, with thunder and lightning.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 1840—Continued.

9 A. M.

	Thermometers.		Hygrometer.		Wind.		
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.
hes.	°	°	°	°			
974	96.0	76.0	65.0	11.0	Westward	Light	Clear.
060		66.0	66.0	0.0	S'd & E'd	Light	Cloudy.
892		70.0	70.0	0.0	N'd & E'd	Light	Cloudy.
680		78.0	70.0	8.0	N'd & W'd	Airs	Cloudy.
868	92.0	70.0	65.0	5.0	Westward	Light	Clear.
912	86.0	76.0	73.0	3.0	S'd & W'd	Moderate	P'g clouds.
980		60.0	60.0	0.0	N'd & W'd	Moderate	Rain.
300	82 0	61.0	50.6	11.0	N'd & W'd	Moderate	Clear.
350	92.0	65 0	58.0	7.0	Westward	Light	Clear.
360	78.0	71.0	58.0	13.0	N'd & E'd	Light	Hazy.
236		72.0	65.0	7.0	Westward	Moderate	Cloudy.
092	93.0	79,0	77.0	2.0	Westward	Moderate	Hazy.
900	98.0	80.0	77.0	3.0	Southward	Light	Hazy.
180	94.0	73.0	57.0	16.0	West	Light	Clear.
008		71.0	71.0	0.0	Northward	Airs	Rain.
174	85.0	68.0	54.0	14.0	N'd & E'd	Moderate	Clear.
250		70.0	58.0	12.0	S'd & W'd	Light	Cloudy.
100		72.0	66.0	6.0	N'd & E'd	Light	Cloudy.
008	82.0	69 0	55.0	14.0	N'd & W'd	Light	Clear.
890	84.0	68.0	49.0	19.0	N'd & W'd	Fresh	Clear.
980	92.0	71.0	65.0	6.0	Westward	Light	Clear.
910	97.0	77.0	69.0	8.0	S'd & W'd	Light	Cloudy.
200		72.0	70.0	2.0	S'd & E'd	Light	Hazy.
190	92.0	77.0	76.0	1.0	S'd & W'd	Airs	P'g clouds.
000	97.0	78.0	75.0	3.0	S'd & W'd	Light	F'g clouds.
912		74.0	73.0	1.0	N'd & E'd	Light	Cloudy.
980		70.0	70.0	0.0	S'd & E'd	Light	Cloudy.
000	100.0	76.0	75.0	1.0	Westward	Light	Clear.
980	102.0	81.0	76.0	5.0	Westward	Light	Clear.
968	106.0	81.0	77.0	4.0	Westward	Moderate	Clear.
044	92.00	72.40	66.37	6.03			

REMARKS—Continued.

ne 29.—At 9*h*. 15*m*. P. M., a heavy cloud, with strong breeze from northward and west-
l, with thunder and lightning.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1840—Continued.

Days of the month.		Phases of the moon.	3 P. M.						
			Barometer.	Thermometers.		Hygrometer.		Wind.	
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.
			Inches.	°	°	°	°		
Mon.	1		29.968	101.0	85.0	75.0	10.0	S'd & W'd	Moderate
Tues.	2		30.000		66.0	66.0	0.0	Eastward	Fresh
Wed.	3		29.802		71.0	71.0	0.0	S'd & W'd	Moderate
Thu.	4		29.654		71.0	71.0	0.0	S'd & W'd	Light
Fri.	5		29.900	102.0	77.0	64.0	13.0	Westward	Light
Sat.	6	☽	29.850		78.0	76.0	2.0	S'd & W'd	Light
Sun.	7		30.084		66.0	58.0	8.0	N'd & W'd	Fresh
Mon.	8		30.292	92.0	68.0	50.0	18.0	Westward	Light
Tues.	9		30.346	93.0	65.0	56.0	9.0	Westward	Light
Wed.	10		30.314	84.0	75.0	67.0	8.0	N'd & E'd	Light
Thu.	11		30.146	90.0	78.0	65.0	13.0	Westward	Light
Fri.	12		29.978	103.0	89.0	75.0	14.0	Westward	Moderate
Sat.	13		29.950	97.0	85.0	70.0	15.0	Westward	Fresh
Sun.	14	○	30.048		75.0	56.0	19.0	Westward	Light
Mon.	15		29.984		69.0	69.0	0.0	S'd & E'd	Light
Tues.	16		30.150	90.0	73.0	55.0	18.0	S'd & W'd	Light
Wed.	17		30.200		76.0	50.0	26.0	Westward	Light
Thu.	18		30.000		80.0	62.0	18.0	S'd & E'd	Light
Fri.	19		29.900	88.0	72.0	52.0	20.0	N'd & W'd	Fresh
Sat.	20		29.840	94.0	75.0	52.0	23.0	N'd & W'd	Fresh
Sun.	21		29.918	104.0	75.0	58.0	17.0	Westward	Light
Mon.	22	☾	29.950	101.0	87.0	74.0	13.0	Westward	Light
Tues.	23		30.190		81.0	73.0	8.0	S'd & E'd	Light
Wed.	24		30.100	104.0	85.0	75.0	10.0	S'd & W'd	Light
Thu.	25		30.000		79.0	79.0	0.0	Calm	Calm
Fri.	26		29.921		72.0	72.0	0.0	N'd & E'd	Moderate
Sat.	27		29.972	90.0	73.0	71.0	2.0	Westward	Airs
Sun.	28		29.974	104.0	87.0	75.0	12.0	Westward	Airs
Mon.	29	●	29.950	108.0	85.0	83.0	2.0	Calm	Calm
Tues.	30		29.950	105.0	83.5	82.0	1.5	Westward	Moderate
	Mean		30.010	97.22	76.77	66.73	10.04		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1840—Continued.

9 P. M.							Registering thermometers.		
	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	Rain or snow.
		Dew point.	Difference.	Direction.	Force.				
hes.	°	°	°				°	°	*Inch.*
892	77.0	70.0	7.0	Westward	Light	Clear	89.0	62.0	
000	62.0	62.0	0.0	N'd & E'd	Light	Rain	84.0	58.0	0.055
762	68.0	68.0	0.0	N'd & E'd	Light	Rain	75.0	61.0	0.725
736	68.5	66.0	2.5	Calm	Calm	Cloudy	75.0	58.0	0.020
944	70 0	62.0	8.0	Westward	Light	Clear	90.0	64.0	
900	66.0	66 0	0.0	S'd & W'd	Light	Rain	88.0	54.0	1.440
180	64.0	56.0	8.0	Northward	Airs	Clear	70.0	48.0	
300	58 0	50.0	8.0	Westward	Light	Clear	76 0	58.0	
322	67.0	64.0	3.0	N'd & E'd	Light	Hazy	73 0	53.0	
282	70.0	67.0	3.0	Calm	Calm	Cloudy	74.0	59 0	
082	75.0	65.0	10.0	S'd & W'd	Light	Clear	86.0	65.0	
900	79.0	73.0	6.0	Southward	Light	Clear	85.0	70.0	
000	72.0	65.0	7.0	Calm	Calm	Clear	85.0	66.0	
000	74.0	64.0	10.0	Westward	Light	Clear	75.0	65.0	
032	67.0	65.0	2.0	N'd & W'd	Light	L't cl'ds	68.0	55.0	0.100
150	68.0	58.0	10.0	N'd & W'd	Light	Clear	70.0	59.0	
208	66.0	54.0	12.0	Westward	Light	Clear	72.0	65.0	0.210
972	63.0	63.0	0.0	S'd & E'd	Light	Rain	76.0	60 0	
888	66.0	54.0	12.0	Westward	Light	Clear	72.0	59.0	
850	69.0	55.0	14.0	N'd & W'd	Light	Clear	76.0	58.0	
932	74.0	68.0	6.0	Southward	Light	Clear	76.0	65 0	
050	78.0	77.0	1.0	Southward	Light	Cloudy	87.0	65 0	
200	72.0	65.0	7.0	Calm	Calm	Clear	76.0	63.0	
100	71.0	70.0	1.0	N'd & W'd	Airs	L't cl'ds	80.0	71.0	
928	76.0	76.0	0.0	Calm	Calm	Cloudy	81.0	70 0	0.030
950	70.0	69.0	1.0	N'd & E'd	Moderate	Cloudy	76.0	62.0	0.075
950	73.0	72.0	1.0	Calm	Calm	Cloudy	74.0	64 0	
968	77.0	70.0	7.0	S'd & E'd	Airs	Clear	87.0	73 0	
900	84.0	83.0	1.0	N'd & W'd	Airs	Cloudy	87.0	72 0	
000	80.0	73.0	7.0	N'd & W'd	Moderate	Clear	83.0	67.0	
012	70.82	65.70	5.12				78.87	62.13	2.655

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Wed.	1		30.050	66.0	58.0	8.0	Westward	Light	Hazy
Thu.	2		30.170	64.0	60.0	4.0	Westward	Light	Cloudy
Fri.	3		30.180	58.0	58.0	0.0	N'd & E'd	Light	Cloudy
Sat.	4		30.250	62.0	54.0	8.0	Westward	Light	Clear
Sun.	5		30.300	65.0	55.0	10.0	Westward	Light	Clear
Mon.	6	☽	30.270	64.0	60.0	4.0	N'd & W'd	Light	Hazy
Tues.	7		30.220	65.0	60.0	5.0	Westward	Light	Clear
Wed.	8		30.150	71.0	70.0	1.0	Northward	Light	Cloudy
Thu.	9		29.990	74.0	73.0	1.0	S'd & W'd	Moderate	Cloudy
Fri.	10		29.924	72.0	62.0	10.0	Calm	Calm	Clear
Sat.	11		30.124	69.0	60.0	9.0	Calm	Calm	Clear
Sun.	12		30.068	74.0	72.0	2.0	Calm	Calm	Clear
Mon.	13		29.910	77.0	70.0	7.0	Calm	Calm	Clear
Tues.	14	○	30.140	76.0	75.0	1.0	S'd & W'd	Light	Pass'g
Wed.	15		30.000	71.0	62.0	9.0	Calm	Calm	Clear
Thu.	16		30.052	70.0	63.0	7.0	Calm	Calm	Clear
Fri.	17		30.080	76.0	67.0	9.0	S'd & W'd	Light	Hazy
Sat.	18		30.024	81.0	74.0	7.0	Southward	Light	Clear
Sun.	19		30.000	77.0	76.0	1.0	S'd & W'd	Moderate	Cloudy
Mon.	20		30.000	77.0	67.0	10.0	N'd & W'd	Moderate	Clear
Tues.	21		30.126	66.0	62.0	4.0	N'd & W'd	Moderate	Clear
Wed.	22	☾	30.168	62.0	60.0	2.0	Westward	Light	Clear
Thu.	23		30.126	76.0	73.0	3.0	S'd & W'd	Light	Cloudy
Fri.	24		29.788	72.0	70.0	2.0	Westward	Light	Pass'g
Sat.	25		30.000	65.0	64.0	1.0	Westward	Light	Hazy
Sun.	26		30.222	64.0	63.0	1.0	Calm	Calm	Clear
Mon.	27		30.250	68.0	67.0	1.0	Calm	Calm	Clear
Tues.	28	●	30.210	76.0	73.0	3.0	S'd & W'd	Light	Pass'g
Wed.	29		30.158	79.0	74.0	5.0	S'd & W'd	Light	Pass'g
Thu.	30		30.068	70.0	68.0	2.0	Variable	Airs	Clear
Fri.	31		30.144	74.0	73.0	1.0	Eastward	Airs	Cloudy
Mean			30.102	70.36	62.68	7.68			

REMARKS.

July 8.—At 5*h*. 40*m*. P. M., heavy clouds from northwest, with rain, thunder, and ning; wind fresh, in squalls. At 6*h*. 30*m*., wind shifted to southward and westward, heavy squalls of wind and rain. A 9 P. M., moderate breezes, with showers of rain durin night.

July 23.—From 2 to 7 A. M., heavy showers of rain, with strong squalls of wind. At 4, wind shifted in a squall to the northward and westward. Nearly all the rain recorded tween 2 and 4 A. M.

July 29.—From 8 P. M. to 10 P. M., incessant flashes of lightning to the southward eastward.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.100	86.0	72.0	60.0	12.0	N'd & W'd	Moderate	Clear.
30.200		71.0	70.0	1.0	N'd & E'd	Light	Rain.
30.200		67.0	65.0	2.0	N'd & W'd	Light	Cloudy.
30.294	94.0	69.0	64.0	5.0	North	Light	Clear.
30.336	92.0	72.0	65.0	7.0	S'd & E'd	Light	L't cl'ds.
30.276		68.0	66.0	2.0	N'd & W'd	Moderate	Cloudy.
30.210	93.0	69.0	59.0	10.0	West	Light	Clear.
30.150		76.0	76.0	0.0	S'd & E'd	Light	Rain.
29.980		74.0	74.0	0.0	Calm	Calm	Rain.
30.054	93.0	78.0	65.0	13.0	N'd & W'd	Moderate	Clear.
30.136	99.0	87.0	76.0	11.0	Westward	Light	Clear.
30.080	102.0	78.0	74.0	4.0	Variable	Airs	Clear.
29.904		86.0	80.0	6.0	S'd & W'd	Light	Cloudy.
29.866	99.0	84.0	79.0	5.0	N'd & W'd	Moderate	P'g cl'ds.
30.010	102.0	82.0	68.0	14.0	Calm	Calm	
30.108	102.0	80.0	76.0	4.0	Westward	Light airs	Clear.
30.128	104.0	81.0	78.0	3.0	S'd & W'd	Light airs	Clear.
30.034	105.0	85.0	83.0	2.0	S'd & W'd	Light airs	Clear.
30.000	96.0	80.0	76.0	4.0	Westward	Light	Clear.
30.126	98.0	77.0	67.0	10.0	N'd & W'd	Moderate	Clear.
30.200	93.0	74.0	68.0	6.0	West	Moderate	Clear.
30.224	102.0	76.0	74.0	2.0	N'd & W'd	Light	Clear.
30.050		75.0	74.0	1.0	S'd & E'd	Light	Cloudy.
29.828	82.0	75.0	70.0	5.0	Westward	Moderate	P'g cl'ds.
30.182	89.0	74.0	70.0	4.0	N'd & E'd	Light	Clear.
30.250	100.0	75.0	71.0	4.0	Calm	Calm	
30.268	100.0	76.0	75.0	1.0	Westward	Light	Clear.
30.150	98.0	77.0	73.0	4.0	Westward	Light	Clear.
30.050		79.0	75.0	4.0	Westward	Light	Cloudy.
30.188		74.0	73.0	1.0	N'd & E'd	Moderate	Cloudy.
30.160		75.5	73.0	2.5	Northward	Light	Cloudy.
30.121	96.62	76.34	70.91	5.43			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1840—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Wed.	1		30.120	92.0	80.0	70.0	10.0	N'd & W'd	Moderate	Clear
Thu.	2		30.200		65.0	65.0	0.0	N'd & W'd	Light	Rain
Fri.	3		30.340	68.0	68.0	65.0	3.0	Calm	Calm	Cloudy
Sat.	4		30.270	96.0	73.0	56.0	17.0	N'd & W'd	Moderate	P'g cl'ds
Sun.	5		30.280	86.0	79.0	55.0	24.0	S'd & E'd	Moderate	P'g cl'ds
Mon.	6	☽	30.264		72.0	67.0	5.0	N'd & E'd	Light	Cloudy
Tues.	7		30.212	90.0	72.0	68.0	4.0	S'd & W'd	Light	Cloudy
Wed.	8		30.130		84.0	79.0	5.0	S'd & W'd	Moderate	Cloudy
Thu.	9		29.922		76.0	70.0	6.0	Westward	Moderate	Cloudy
Fri.	10		30.120	96.0	82.0	62.0	20.0	N'd & W'd	Light	Clear
Sat.	11		30.082	109.0	80.0	78.0	2.0	Westward	Airs	P'g cl'ds
Sun.	12		30.052		89.0	79.0	10.0	S'd & W'd	Light	P'g cl'ds
Mon.	13		29.790		85.0	83.0	2.0	Southward	Moderate	Cloudy
Tues.	14	○	29.880	108.0	81.5	75.0	6.5	Westward	Light	Clear
Wed.	15		30.074		88.0	65.0	23.0	Westward	Light	Clear
Thu.	16		30.100	112.0	92.0	74.0	18.0	Westward	Light	Clear
Fri.	17		30.026	109.0	84.0	70.0	14.0	Westward	Light	L't cl'ds
Sat.	18		30.022		89.0	85.0	4.0	Calm	Calm	Cloudy
Sun.	19		30.000		82.0	73.0	9.0	Calm	Calm	P'g cl'ds
Mon.	20		30.126	107.0	78.0	73.0	5.0	N'd & W'd	Moderate	Clear
Tues.	21		30.164	102.0	80.0	60.0	20.0	Westward	Light	Clear
Wed.	22	☾	30.224		84.0	77.0	7.0	S'd & W'd	Moderate	L't cl'ds
Thu.	23		29.880		73.0	73.0	0.0	S'd & E'd	Light	Rain
Fri.	24		29.870		80.0	76.0	4.0	Westward	Light	Cloudy
Sat.	25		30.176	104.0	78.0	74.0	4.0	Northward	Light	P'g cl'ds
Sun.	26		30.200	106.0	76.0	72.0	4.0	N'd & W'd	Light	Clear
Mon.	27		30.214		81.0	78.0	3.0	S'd & W'd	Light	P'g cl'ds
Tues.	28	●	30.026		88.0	82.0	6.0	S'd & W'd	Fresh	P'g cl'ds
Wed.	29		30.046	99.0	87.0	84.0	3.0	S'd & W'd	Moderate	P'g cl'ds
Thu.	30		30.200		87.0	83.0	4.0	N'd & E'd	Moderate	Cloudy
Fri.	31		30.080		74.0	70.0	0.0	N'd & E'd	Airs	L't rain
	Mean		30.100	97.14	79.27	72.42	6.85			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1840—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inch.*
30.150	70.0	65.0	5.0	N'd & W'd	Moderate	Pass'g cl'ds	80.0	63.0	
30.200	64.0	64.0	0.0	N'd & W'd	Light	Clear	65.0	59.0	0.400
							69.0	58.0	
30.284	67.0	60.0	7.0	Calm	Calm	Clear	73.0	56.0	
30.284	68.0	58.0	10.0	S'd & E'd	Light	Clear	79.0	61.0	
30.224	63.0	63.0	0.0	Eastward	Moderate	Light rain	72.0	61.0	0.030
30.188	71.0	68.0	3.0	S'd & E'd	Light	Cloudy	76.0	65.0	0.026
30.020	71.0	71.0	0.0	S'd & W'd	Moderate	Cloudy	84.0	71.0	0.570
29.914	74.0	65.0	9.0	Calm	Calm	Clear	76.0	68.0	
30.100	73.0	63.0	10.0	N'd & W'd	Light	Clear	83.0	69.0	
30.072	77.0	65.0	12.0	Westward	Light	Clear	83.0	69.0	
30.140	74.0	68.0	6.0	Calm	Calm	Clear	89.0	73.0	
30.140	82.0	80.0	2.0	Southwest	Moderate	Cloudy	86.0	73.0	
29.963	77.0	75.0	2.0	S. & E.	Airs	Clear	83.0	68.0	
30.054	80.0	70.0	10.0	N'd & W'd	Light	Clear	88.0	71.0	
30.092	82.0	78.0	4.0	Westward	Light	Clear	92.0	75.0	
30.046	83.0	79.0	4.0	Southward	Light	Clear	86.0	76 0	
30.050	78.0	76.0	2.0	Variable	Airs	Pass'g cl'ds	89.0	74.0	
30.084	77.0	63.0	14.0	N'd & W'd	Moderate	Pass'g cl'ds	87.0	68.0	
30.128	71.0	65.0	6.0	Westward	Moderate	Pass'g cl'ds	80.0	62.0	
30.150	73.0	64.0	9.0	Westward	Light	Clear	80.0	62.0	
30.224	78.0	71.0	7.0	Southward	Light	Clear	84.0	71.0	
29.795	73.0	70.0	2.0	Northward	Light	Cloudy	77.0	70.0	3.900
29.972	69 0	64.0	5.0	Westward	Light	Clear	80.0	65 0	
30.206	72.0	71.0	1.0	Calm	Calm	Clear	78.0	62.0	
30.250	75.0	72.0	3.0	N'd & W'd	Light	Clear	76.0	68.0	
30.210	76.0	73.0	3.0	S'd & W'd	Moderate	Clear	82.0	74.0	
30.032	82.0	78.0	4.0	S'd & W'd	Moderate	Light cl'ds	88.0	73.0	
30.060	78.0	75.0	3.0	Southward	Airs	Clear	87.0	68.0	
30.150	78.0	77.0	1.0	Calm	Calm	Cloudy	87.0	73.0	
30.100	74.0	73.5	0.5	N'd & E'd	Airs	Cloudy	77.0	69.0	
30.110	74.40	69.52	4.82				84.70	67.90	5.160

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
					Hygrometer.		Wind.		
			Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.
			Inches.	°	°	°			
Sat.	1		30.050	73.5	72.0	1.5	Calm	Calm	Cloudy
Sun.	2		30 040	77.0	75.0	2.0	Southward	Moderate	Cloudy
Mon.	3		29.924	73.0	70.0	3.0	Southwest	Fresh	Clear
Tues.	4		29.950	78.0	76.0	2.0	South	Moderate	Clear
Wed.	5	☽	29.886	78.0	77.0	1.0	Southwest	Moderate	Cloudy
Thu.	6		29.900	76.0	75.0	1.0	Southwest	Airs	Cloudy
Fri.	7		29.740	77.0	70.0	7.0	Southwest	Airs	Cloudy
Sat.	8		29.830	64.0	60.0	4.0	Southwest	Airs	Cloudy
Sun.	9		30.046	68.0	65.0	3.0	Southwest	Light	Cloudy
Mon.	10		30.200	64.0	60.0	4.0	Calm	Calm	Clear
Tues.	11		30.150	65.5	60.0	3.5	S. & W.	Moderate	Cloudy
Wed.	12		30.010	76.0	73.0	3.0	S. & E.	Moderate	F'g'd's
Thu.	13	○	29.850	78.0	78.0	0.0	Calm	Calm	Cloudy
Fri.	14		29.746	70.0	70.0	0.0	S. & E.	Airs	Cloudy
Sat.	15		29.968	73.0	71.0	2.0	Northwest	Airs	L't d's
Sun.	16		30.120	76.0	73.0	3.0	Southward	Light	Cloudy
Mon.	17		30.250	68.0	64.0	4.0	S. & E'd	Light	Cloudy
Tues.	18		30.376	70.0	69.0	1.0	Variable	Airs	Cloudy
Wed.	19		30.298	72.0	70.0	2.0	S. & E.	Airs	Clear
Thu.	20	☾	30.120	73.5	70.0	3.5	Southward	Light	P'g'd's
Fri.	21		30.050	74.0	70.0	4.0	Calm	Calm	Clear
Sat.	22		30.042	78.0	75.0	3.0	Calm	Calm	Clear
Sun.	23		29.960	78.0	73.0	5.0	S. & W'd	Light	Clear
Mon.	24		29.980	77.0	76.0	1.0	S. & W'd	Light	Cloudy
Tues.	25		30.000	76.0	76.0	0.0	Westward	Moderate	Cloudy
Wed.	26		30.168	60.0	56.0	4.0	Calm	Calm	Clear
Thu.	27	●	30.126	60.0	58.0	2.0	Southward	Light	Clear
Fri.	28		30.100	63.0	60.0	3.0	S. & E.	Airs	Clear
Sat.	29		30.126	70.0	66.0	4.0	S. & E.	Airs	Cloudy
Sun.	30		30.120	73.0	70.0	3.0	Westward	Light	Cloudy
Mon.	31		30.000	78.0	78.0	0.0	S. & W'd	Light	Cloudy
Mean			30.039	72.16	69.84	2.34			

REMARKS.

August 2.—2 A. M., thunder and lightning at the northeast.

August 4.—From 6 to 8 P M., lightning in the northeast.

August 8.—At 8 P. M., wind shifted from the southward and westward to northward and westward.

August 11.—From 7 to 9 P. M., lightning in the north and eastward.

August 13.—From 10 A. M. to 1 P. M., constant showers of rain, with thunder and lightning.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.094	84.0	75.0	75.0	0.0	Southward	Light	Cloudy.
30.028	90.0	76.0	75.0	1.0	Westward	Light	Clear.
29.966		75.0	75.0	0.0	Southwest	Light	Rain.
29.900	94.0	78.0	75.0	3.0	Southwest	Light	Clear.
29.916		77.0	76.0	1.0	Northwest	Moderate	Cloudy.
29.950		76.5	75.0	1.5	Southwest	Moderate	Cloudy.
29.868	100.0	76.0	66.0	10.0	Variable	Light	Clouds.
29.920	99.0	72.0	70.0	2.0	West	Light	Clear.
30.142	90.0	72.0	64.0	8.0	West	Light	Clear.
30.278	98.0	77.5	72.0	5.5	Calm	Calm	Clear.
30.130	99.0	76.0	74.0	2.0	South	Light	Clear.
30.000		77.0	75.0	2.0	South	Airs	Hazy.
29.818		75.0	73.0	2.0	Southwest	Light	Cloudy.
29.826	97.0	75.5	75.0	0.5	N. & W.	Light	Clear.
30.050	91.0	75.0	74.0	1.0	Southward	Light	Clear.
30.216		73.0	73.0	0.0	Southeast	Light	Rain.
30.384		75.0	74.0	1.0	Southeast	Light	F'g cl'ds.
30.426		70.5	70.0	0.5	Southeast	Light	Cloudy.
30.300	97.0	74.0	74.0	0.0	S. & E.	Light	Clear.
30.132	99.0	75.0	72.0	3.0	West	Airs	Clear.
30.078	100.0	79.0	75.0	4.0	S. & W.	Light	Clear.
30.084	102.0	80.0	76.0	4.0	Calm	Calm	Clear.
30.000	102.0	82.0	80.0	2.0	Southward	Light	Clear.
30.032	80.0	75.5	75.0	0.5	Southward	Light	Cloudy.
30.100	96.0	75.0	70.0	5.0	Westward	Moderate	Clear.
30.200	94.0	70.0	60.0	10.0	Westward	Light	Clear.
30.116	94.0	71.0	70.0	1.0	Westward	Light	Clear.
30.200	95.0	73.0	68.0	5.0	Eastward	Light	Clear.
30.140	86.0	75.0	74.0	1.0	Westward	Light	Cloudy.
30.118		76.0	76.0	0.0	S. & W'd	Light	Cloudy.
30.033		80.0	78.0	2.0	S. & W'd	Light	Cloudy.
30.081	94.69	75.39	72.87	2.52			

REMARKS—Continued.

August 23.—At 6, wind shifted from southwest to northwest, blowing violently till 7; rain, with thunder and lightning. Squalls of wind and rain continued till 10 P. M.

August 24.—From 7 to 9 P. M., lightning in the southwest. Lightning, with passing clouds, during the night.

August 28.—From 8*h*. 30*m*. to 9*h*. 45*m*. P. M., the aurora borealis distinctly visible, extending from northeast by north to northwest by north; faint appearances of it, at irregular intervals, until 1*h*. 45*m*. A. M. of 29th.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1840—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Sat.	1		30.070	102.0	78.0	75.0	3.0	Southward	Light	P'g cl'ds
Sun.	2		30.000	102.0	85.0	70.0	15.0	Westward	Light	Clear
Mon.	3		29.860		85.0	77.0	8.0	Southwest	Fresh	P'g cl'ds
Tues.	4		29.880		87.0	82.0	5.0	Southwest	Fresh	Clouds
Wed.	5	☽	29.888	104.0	82.0	70.0	12.0	Westward	Moderate	Clear
Thu.	6		29.822	100.0	84.0	74.0	10.0	Westward	Moderate	Clear
Fri.	7		29.890		71.0	71.0	0.0	N. & E.	Light	Rain
Sat.	8		29.920		80.0	75.0	5.0	Northwest	Light	P'g cl'ds
Sun.	9		30.150	104.0	75.0	70.0	5.0	Northwest	Light	Clear
Mon.	10		30.220	102.0	74.5	71.0	3.5	Northwest	Light	L't cl'ds
Tues.	11		30.180	86.0	78.0	75.0	3.0	Southward	Light	Cloudy
Wed.	12		29.900		83.0	77.0	6.0	Southwest	Moderate	Cloudy
Thu.	13	○	29.700		79.0	77.0	2.0	Southwest	Moderate	Cloudy
Fri.	14		29.850	100.0	77.0	74.0	3.0	Northwest	Airs	Clear
Sat.	15		30.052	97.0	75.0	72.0	3.0	South	Light	Clear
Sun.	16		30.240		76.0	75.0	1.0	S. & E.	Moderate	Cloudy
Mon.	17		30.382		80.0	76.0	4.0	S. & E.	Light	Cloudy
Tues.	18		30.350	99.0	76.5	74.0	2.5	S. & E.	Airs	Clear
Wed.	19		30.260	98.0	77.0	75.0	2.0	Southward	Light	Clear
Thu.	20	☾	30.050		84.0	76.0	8.0	West		Cloudy
Fri.	21		30.064	110.0	86.0	80.0	6.0	Southwest	Light	P'g cl'ds
Sat.	22		30.028	100.0	83.0	77.0	6.0	S. & W.	Moderate	Clear
Sun.	23		29.900	101.0	84.0	75.0	9.0	Southward	Fresh	Clear
Mon.	24		30.110	88.0	77.0	75.0	2.0	Southward	Light	Clear
Tues.	25		30.110	88.0	79.0	75.0	4.0	N. & W.	Moderate	Clear
Wed.	26		30.056	99.0	76.0	71.0	5.0	N. & W.	Light	P'g cl'ds
Thu.	27	●	30.078	95.0	72.5	71.0	1.5	Eastward	Light	P'g cl'ds
Fri.	28		30.158	98.0	79.0	69.0	10.0	Eastward	Moderate	Clear
Sat.	29		30.140	92.0	78.0	76.0	2.0	Southward	Moderate	Clear
Sun.	30		30.050	95.0	78.0	76.0	2.0	Southwest	Moderate	Cloudy
Mon.	31		30.000		82.0	79.0	3.0	Northwest	Airs	Cloudy
	Mean		30.042	98.09	79.36	74.84	4.52			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1840—Continued.

9 P. M.							Registering thermometers.		
Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	Rain or snow.
		Dew point.	Difference.	Direction.	Force.				
Inches.	°	°	°				°	°	*Inches.*
30.050	77.0	70.0	7.0	Southward	Light	Clear	80.0	73.0	
29.972	78.0	74.0	4.0	Southward	Light	Clear	85.0	70.0	
29.942	81.0	76.0	5.0	Southwest	Moderate	Clear	87.0	72.0	
29.885	79.0	78.0	1.0	S. S. E.	Fresh	Cloudy	85.0	72.0	
29.908	76.0	71.0	5.0	Southwest	Airs	Clear	84.0	68.0	
29.756	77.0	74.0	3.0	Southwest	Moderate	Cloudy	84.0	73.0	
29.864	66.0	66.0	0.0	Northeast	Light	Rain	78.0	62.0	0.21
30.008	72.0	70.0	2.0	Calm	Calm	P'g cl'ds	80.0	65.0	
30.150	72.0			Northwest	Light	Clear	76 0	60.0	
30.174	74.0	71.0	3.0	Southeast	Light	Clear	78.0	68.0	
30.030	77.0	74.0	3.0	Southeast	Light	Clouds	83.0	72.0	
29.900	80.0	78.0	2.0	South	Light	Clouds	83.0	71.0	
29.724	71.0	71.0	0.0	Calm	Calm	Clouds	79.0	68.0	1.95
29.932	75.5	73.0	2.5	Northwest	Airs	P'g cl'ds	77.0	66.0	
30.110	76 0	75.0	1.0	South	Light	Cloudy	80.0	69.0	0.04
30.250	72.0	65 0	7.0	West	Light	Clear	78.0	66.0	
30.384	73.0	72.0	1.0	S. & E.	Light	Cloudy	80.0	67.0	
30.348	74.0	72.0	2.0	S. & E.	Airs	Clear	76.0	65.0	
30.300	75.0	73.0	2.0	S. & E.	Airs	Clear	77.0	68.0	
30.050	78.0	75.0	3.0	Calm	Calm	Clear	84.0	73.0	
30.066	81.0	79.0	2.0	Variable	Airs	Clear	86.0	74.0	
30.020	82.0	78.0	4.0	S'd & W'd	Moderate	Clear	87.0	78.0	
29.950	77.0	77.0	0.0	S'd & W'd	Moderate	Rain	84.0	78.0	0.90
30.010	75.0	75.0	0.0	Southward	Moderate	Cloudy	88.0	77.0	
30.150	70.0	66.0	4.0	N. & E.	Airs	Clear	79.0	65.0	
30.130	67.0	64.0	3.0	Calm	Calm	Clear	78.0	59.0	
30.078	71.5	69.0	2.5	Eastward	Airs	Clear	73.0	60.0	
30.106	73.0	71.0	2.0	Calm	Calm	Cloudy	79.0	63.0	
30.150	74.5	74.0	0.5	Southward		Clear	78.0	70.0	
30.032	79.0	76.0	3.0	Southwest	Moderate	Clear	82.0	73 0	
30.066	78.5	74.0	4.5	Calm	Calm	Cloudy	82.0	78.0	
30.048	75.17	72.70	2.63				80.99	69.03	3.10

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Tues.	1		30.084	66.0	63.0	3.0	N'd & W'd	Light	Clear
Wed.	2		29.996	61.0	58.0	3.0	N'd & W'd	Light	Clear
Thu.	3	☽	29.930	75.0	69.0	6.0	S'd & W'd	Fresh	Cloudy
Fri.	4		30.056	73.0	68.0	5.0	Calm	Calm	Clear
Sat.	5		30.022	57.0	57.0	0.0	Eastward	Moderate	Rain
Sun.	6		30.094	56.0	52.0	4.0	N'd & W'd	Light	Clear
Mon.	7		30.250	56.5	53.0	3.5	N'd & E'd	Airs	Clear
Tues.	8		30.150	66.0	62.0	4.0	S'd & W'd	Light	Pass'g
Wed.	9		30.000	72.0	68.0	4.0	S'd & W'd	Light	Clear
Thu.	10		29.866	71.0	71.0	0.0	Calm	Calm	Rain
Fri.	11	○	29.884	57.0	54.0	3.0	N'd & W'd	Light	Clear
Sat.	12		30.160	47.0	43.0	4.0	N'd & W'd	Light	Clear
Sun.	13		30.356	43.0	42.0	1.0	N'd & E'd	Airs	Clear
Mon.	14		30.348	47.0	43.0	4.0	N'd & W'd	Airs	Clear
Tues.	15		30.150	68.0	60.0	8.0	S'd & W'd	Light	Clear
Wed.	16		30.100	54.0	48.0	6.0	S'd & W'd	Light	Clear
Thu.	17		30.116	57.0	49.0	8.0	Calm	Calm	Clear
Fri.	18	☾	29.880	66.0	66.0	0 0	N'd & W'd	Fresh	Rain
Sat.	19		29.950	67.0	63.0	4.0	Calm	Calm	Clear
Sun.	20		29.850	43.0	42.0	1.0	Calm	Calm	Clear
Mon.	21		29.832	53.0	50.0	2.0	N'd & W'd	Light	Clear
Tues.	22		30.278	40.0	37.0	3.0	Calm	Calm	Clear
Wed.	23		30.300	39.0	34.0	5.0	Calm	Calm	Clear
Thu.	24		30.253	45.0	42.0	3.0	Calm	Calm	Clear
Fri.	25	●	30.350	50.0	46.0	4.0	N'd & E'd	Light	Clear
Sat.	26		30.270	55.0	52.0	3.0	N'd & E'd	Light	Cloudy
Sun.	27		30.130	50.0	47.0	3.0	Westward	Light	Clear
Mon.	28		30.120	45.0	41.0	4.0	Westward	Light	Clear
Tues.	29		30.236	42.5	40.0	2.5	Eastward	Light	Clear
Wed.	30		30.150	54.0	49.0	5 0	S'd & W'd	Light	Clear
Mean			30.105	55.83	52.30	3.53			

REMARKS.

September 4.—At 2*h*. 30*m*. P. M., the wind shifted from the northward and westward t southward and eastward.

September 10.—At 1 P. M., a squall from the northward and westward, with rain. Th mometer fell from 78° to 70°.

September 17.—At 4 A. M., a lunar halo; continued till obscured by daylight. Diam 44° 52′.

September 20.—At 6*h* 40*m* P. M., wind shifted suddenly to the north; fresh.

September 21.—At 8 P. M., indication of the aurora. At 8*h*. 10*m*., an auroral arch form

SEPTEMBER, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.150	94.0	73.0	68.0	5.0	Westward	Light	Clear.
29.960	94.0	72.5	70.0	2.5	S'd & W'd	Light	Clear.
30.010		70.0	69.0	1.0	N'd & W'd	Moderate	Cloudy.
30.150		62.0	55.0	7.0	N'd & W'd	Moderate	Cloudy.
30.036		60.0	60.0	0.0	N'd & E'd	Light	Rain.
30.176	84.0	65.0	63.0	2.0	Northwest	Moderate	Clear.
30.300	98.0	67.0	62.0	5.0	Northwest	Light	Clear.
30.150	82.0	72.0	64.0	8.0	Southwest	Moderate	P'g cl'ds.
30.000	92.0	73.0	64.0	9.0	S'd & W'd	Clear	Clear.
29 878	97.0	73.0	71.0	2.0	Westward	Airs	Clear.
29.980	74.0	64.0	61.0	3.0	W. N. W.	Fresh	P'g cl'ds.
30.250	81.0	66.0	55.0	11.0	Northwest	Fresh	P'g cl'ds.
30.418	86.0	56.0	51.0	5.0	Northwest	Light	Clear.
30.370	79.0	68.0	61.0	7.0	N'd & E'd	Light	Clear.
30.150	93.0	64.0	62.0	2.0	N'd & W'd	Light	Clear.
30.140	91.0	62.0	60.0	2.0	Calm	Calm	Clear.
30.078	86.0	71.0	62.0	9.0	S'd & W'd	Light	Clear.
29.930		67.0	55.0	12.0	N'd & W'd	Light	Rain.
29 950	83.0	69.0	65.0	4.0	S'd & W'd	Light	Clear.
29.800	76.0	57.0	50.0	7.0	S'd & W'd	Light	Clear.
29.968	80.0	55.0	51.0	4.0	N'd & W'd	Fresh	Clear.
30.382	76.0	51.0	48.0	3.0	N'd & W'd	Light	Clear.
30.350	82.0	52.0	51.0	1.0	N'd & E'd	Light	Clear.
30 374	80.0	61 0	55.0	6.0	N'd & E'd	Moderate	Clear.
30.400	70.0	58.0	55.0	3.0	N'd & E'd	Light	Hazy.
30.300	78.0	67.5	66.5	0.5	Eastward	Light	P'g cl'ds.
30.012	78.0	67.5	67.0	0.5	S'd & E'd	Moderate	Clear.
30.228	83 0	60.0	53.0	7.0	S'd & W'd	Light	Clear.
30.280		52.5	47.0	5.5	Northward	Airs	Clear.
30.114	69.0	65.0	64.0	1.0	S'd & W'd	Fresh	P'g cl'ds.
[illegible]133	83.44	64.07	59.59	4.48			

REMARKS—Continued.

About 10*h.*, magnetic bearing on horizon of the eastern extremity northeast by east, centre north by east, western extremity northwest.

September 23.—At 10*h.* 40*m.* P. M., a segment of an auroral arch, extending from north-northeast to north-northwest; centre or highest point, north by east; altitude, 8°.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1840—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Tues.	1		30.100	90.0	76.0	67.0	9.0	S'd & W'd	Light	Clear
Wed.	2		29.900	90.0	78.0	73.0	5.0	S'd & W'd	Fresh	Clear
Thu.	3	☽	30.050		76.0	73.0	3.0	Northward	Moderate	Cloud
Fri.	4		30.116		64.0	64.0	0.0	S'd & E'd	Light	Cloud
Sat.	5		30.000		63.0	62.0	1.0	N'd & E'd	Light	Cloud
Sun.	6		30.150	80.0	73.0	65.0	8.0	Westward	Moderate	Clear
Mon.	7		30.250	79.0	72.0	68.0	4.0	Southward	Moderate	Clear
Tues.	8		30.084		78.0	74.0	4.0	S'd & W'd	Moderate	P'g c'
Wed.	9		29.940		80.0	78.0	2.0	S'd & W'd	Light	Cloud
Thu.	10		29.820		67.0	67.0	0.0	S'd & E'd	Light	Rain
Fri.	11	○	29.970	74.0	65.0	63.0	2.0	N'd & W'd	Fresh	P'g c'd
Sat.	12		30.266	74.0	64.0	35.0	29.0	N'd & W'd	Fresh	Clear
Sun.	13		30.336		71.0	50.0	21.0	N'd & E'd	Light	P'g c'd
Mon.	14		30.252	81.0	70.0	55.0	15.0	West	Light	Clear
Tues.	15		30.100	84.0	74.0	62.0	12.0	West	Light	Clear
Wed.	16		30.090	94.0	76.0	62,0	14.0	S'd & W'd	Light	Clear
Thu.	17		29.976		78.0	56.0	22.0	S'd & W'd	Moderate	Cloud
Fri.	18	☾	29.900	60.0	60.0	60.0	0.0	N'd & W'd	Light	Cloud
Sat.	19		29.912	88.0	67.0	66.0	1.0	N'd & W'd	Fresh	Clear
Sun.	20		29.600	86.0	71.0	62.0	9.0	S'd & W'd	Moderate	Clear
Mon.	21		29.986	82.0	62.0	53.0	9.0	N'd & W'd	Fresh	Clear
Tues.	22		30.334	70.0	59.0	55.0	4 0	Westward	Light	Clear
Wed.	23		30.250	84.0	69.0	44.0	15.0	West	Light	Clear
Thu.	24		30.322	80.0	69.5	57.0	12.5	N'd & E'd	Light	Clear
Fri.	25	●	30.376		72.0	63.0	9.0	N'd & E'd	Light	Cloud
Sat.	26		30.284	94.0	74.0	73.0	1.0	Southward	Moderate	P'g c'
Sun.	27		29.982	66.0	66 0	65.0	1.0	S'd & W'd	Light	Cloud
Mon.	28		30.176	88.0	64.0	58.0	6.0	S'd & W'd	Moderate	Clear
Tues.	29		30.200	87.0	69 0	51.0	18.0	S'd & W'd	Light	L't c
Wed.	30		30.030	88.0	79.0	65.0	14.0	S'd & W'd	Moderate	Clear
	Mean		30.085	81.86	70.22	61.53	8:69			

REMARKS.

SEPTEMBER, 1840—Continued.

9 P. M.							Registering thermometers.		
Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	Rain or snow.
		Dew point.	Difference.	Direction.	Force.				
Inches.	°	°	°				°	°	*Inch.*
30.084	70.0	64.0	6.0	Northward	Airs	Clear	76.0	66.0	
29.834	77.5	72.0	5 5	S'd & W'd	Fresh	Cloudy	78.0	61.0	
30.056	72.0	69.0	3.0	Calm	Calm	P'g cl'ds	76.0	69.0	
30.070	59.0	59.0	0.0	S'd & W'd	Light	Cloudy	64.0	59.0	0.80
30.054	61.0	59.0	2.0	Calm	Calm	Clear	63.0	57.0	0.014
30.209	60.0	57.0	3.0	Calm	Calm	Clear	73.0	56.0	
30.200	70.0	66.0	4.0	Southward	Light	P'g cl'ds	72.0	56.0	
30.100	74.0	70.0	4.0	Southward	Moderate	P'g cl'ds	78.0	66.0	
29.922	72.0	72.0	0.0	S'd & E'd	Light	L't driz.	80.0	72.0	0.04
29.890	65.0	64.0	1.0	N'd & W'd	Moderate	Clear	78.0	65.0	0.50
30.072	55.0	51.0	4.0	N'd & W'd	Moderate	Clear	65.0	55.0	
30.330	55.5	51.0	4.5	N. & W.	Light	Clear	66.0	43.0	
30.352	58.0	52.0	6.0	Variable	Airs	Clear	67.0	47.0	
30.200	68.0	60.0	8.0	S'd & W'd	Airs	Clear	70.0	39.0	
30.100	62.0	58.0	4 0	S'd & W'd	Airs	Clear	74.0	52.0	
30.110	61.0	57.0	4.0	Calm	Calm	Clear	76.0	55.0	
29.910	70.0	70.0	0.0	S'd & W'd	Moderate	Rain	79.0	54.0	0.51
29 900	65.0	56.0	9.0	N'd & W'd	Light	Cloudy	63.0	48.0	0.22
29.900	54.0	50.0	4.0	N'd & W'd	Light	Clear	67.0	43.0	
29.716	66.0	66.0	0.0	N'd & W'd	Light	L't rain	72.0	45.0	
30.166	50.5	43.0	7.5	N. & W.	Light	Clear	63.0	44.0	
30.320	43.0	41.0	2.0	N. & W.	Light	Clear	65.0	37.5	
30.250	52.0	49.0	3.0	S'd & W'd	Light	Clear	69.0	38.0	
30.332	56.5	55.0	1.5	N'd & E'd	Light	Clear	70.0	40.0	
30.300	53.5	51.0	2 5	S'd & E'd	Light	Clear	71.0	49.0	
30.140	59.0	55.0	4.0	Calm	Calm	Clear	73.0	49.0	
30.050	58.0	56.0	2.0	Calm	Calm	Clear	69.0	47.0	0.05
30.218	57.0	50.0	1.0	Calm	Calm	Clear	75.0	40.0	
30.180	57.0	53.0	4.0	S'd & E'd	Airs	Clear	69.0	40.5	
30.050	67.0	60.0	7.0	S'd & W'd	Airs	Clear	79.0	54.0	
30.100	61.55	58.20	3.35				71.33	51.09	2.134

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1840.

Days of the month.		Phases of the moon.	3 A. M.						
			Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.
					Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°			
Thu.	1		30.060	60.0	55.0	5.0	S'd & W'd	Light	Clear
Fri.	2		30.152	65.0	62.0	3.0	N'd & E'd	Airs	Clear
Sat.	3	☽	29.974	67.5	66.0	1.5	S. S. W.	V'y fresh	Cloudy
Sun.	4		30.056	39.5	35.0	4.5	N. N. E.	Light	Clear
Mon.	5		30.220	42.0	34.0	8.0	East	Light	Clear
Tues.	6		30.118	59.0	49.0	10.0	S. S. E.	Light	Clear
Wed.	7		30.126	57.5	49.0	8.5	Calm	Calm	Clear
Thu.	8		30.240	51.0	49.0	2.0	East	Airs	Hazy
Fri.	9		30.258	50.0	45.0	5.0	Calm	Calm	Foggy
Sat.	10	○	30.248	61.0	60.0	1.0	E. N. E.	Moderate	Clear
Sun.	11		30.028	58.5	58.5	0.0	Southwest	Light	Rain
Mon.	12		29.710	58.0	50.0	8.0	Southwest	Light	Clear
Tues.	13		30.000	50.0	46.0	4.0	N'd & W'd	Light	Clear
Wed.	14		29.992	47.0	45.0	2.0	Northward	Light	Clear
Thu.	15		29.980	50.0	49.0	1.0	N. N. E.	Light	Clear
Fri.	16		30.256	41.0	25.0	16.0	N. N. E.	Light	Clear
Sat.	17	☾	30.322	38.0	33.0	5.0	Northeast	Light	Hazy
Sun.	18		30.326	55.5	55.5	0.0	Southward	Moderate	Light
Mon.	19		30.200	60.0	58.0	2.0	S'd & E'd	Light	Cloudy
Tues.	20		30.080	65.0	65.0	0.0	S'd & E'd	Moderate	Rain
Wed.	21		29.980	62.0	62.0	0.0	Northeast	Light	Cloudy
Thu.	22		29.754	60.0			Northwest	Strong	Passing
Fri.	23		30.026	40.5	37.0	3.5	Calm	Calm	Clear
Sat.	24	●	30.010	54.0	47.0	7.0	N'd & W'd	Strong	Clear
Sun.	25		30.086	31.0	25.0	6.0	Northward	Airs	Clear
Mon.	26		29.970	30.0	29.0	1.0	W. by S.	Fresh	Clear
Tues.	27		30.290	25.0	24.0	1.0	Westward	Airs	Clear
Wed.	28		30.220	38.5	30.0	8.5	Southward	Moderate	Clear
Thu.	29		30.070	52.0	52.0	0.0	S'd & E'd	Light	Rain
Fri.	30		29.614	59.5	59.0	0.5	Westward	Moderate	Cloudy
Sat.	31		29.870	40.0	36.0	4.0	N. N. W.	Moderate	Clear
	Mean		30.072	50.58	46.33	3.93			

REMARKS.

October 4.—At 4*h*. A. M., zodiacal light visible in the east.

October 7.—From 8*h*. to 10*h*. 30*m*. P. M., a lunar halo.

October 8.—A lunar halo visible from 7*h*. to 8*h*. 30*m*. P. M.

October 13.—From 8*h*. to 10*h*. P. M., a lunar halo.

October 27.—At 10*h*. P. M., a diffused light visible at the north, which continued till light.

OCTOBER, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.144		75.0	69.0	6.0	S'd & W'd	Light	Cloudy.
30.164		70.5	69.0	1.5	E. N. E.	Light	Cloudy.
30.013		56.0	56.0	0.0	N'd & W'd	Fresh	Rain.
30.304	67.0	56.0	48.5	8.0	Southwest	Light	Clear.
30.222	73.0	61.0	51.0	10.0	Southeast	Light	Clear.
30.122		54.5	49.0	5.5	Southwest	Airs	Clear.
30.214	75.0	68.0	63.0	0.0	Eastward	Airs	Clear.
30.300		61.5	60.5	1.0	Eastward	Airs	Cloudy.
30 301		61.0	60.0	1.0	E. S. E.	Light	Cloudy.
30.302		64.5	64.0	0.5	E. by N.	Light	Cloudy.
29 980		66.0	65.0	1.0	S. S. W.	Fresh	Cloudy.
29.726		72.0	68.0	4.0	N. by W.	Fresh	Clear.
30.050	66.0	63.0	60.0	3.0	Northeast	Light	Clear.
30.200	64.0	55.0	51.0	4.0	S'd & E'd	Light	Clear.
29.990		56.0	56.0	0.0	E. N. E.	Light	Rain.
30.298	56.0	46.5	24.0	21.5	N. N. E.	Moderate	Clear.
30.352		48.5	43.0	5.5	N'd & E'd	Light	Cloudy.
30.340		57.0	57.0	0.0	N'd & E'd	Light	Rain.
30.218	76.0	67.0	64.0	3.0	Southward	Light	Clear.
30.068		65.0	65.0	0.0	S. S. W.	Moderate	Rain.
29.962		62.5	60.0	2.5	Eastward	Light	Cloudy.
30.000		55.0	48.0	7.0	Northwest	Fresh	Pas'g cl'ds.
30.040		52.5	49.0	3.5	S'd & W'd	Moderate	Clear.
30.210	56.0	45.0	37.0	8.0	Northward	Moderate	Clear.
30.021		44.5	39.0	5 5	West	Airs	Pas'g cl'ds.
30.041	37.0	35.0	28.0	7.0	W. S. W.	Fresh	Clear.
30.380	64.0	38.5	33.0	5.5	Southwest	Light	Clear.
30.216	57.0	46.0	39.0	7.0	S. S. E.	Moderate	Clear.
29.792		59.0	59.0	0.0	S'd & E'd	Light	Rain.
29.700	56.0	54.0	54.0	0.0	Northwest	Fresh	Pas'g cl'ds.
29.934		47.0	45.0	2.0	N'd & W'd	Light	Cloudy.
30.115	62.25	56.69	52.71	3.98			

REMARKS.

OCTOBER, 1840—Continued.

Days of the month.	Phases of the moon.	3 P. M.							
			Thermometers.		Hygrometer.		Wind.		
		Barometer.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.
		Inches.	°	°	°	°			
Thu. 1		30.104	92.0	77.0	67.0	10.0	S'd & W'd	Light	Pas'g
Fri. 2		30.098		82.0	82.0	0.0	S. S. W.	Light	Rain
Sat. 3	☽	30.118	80.0	62.0	51.0	11.0	West	Moderate	Light cl
Sun. 4		30.234		62.0	56.0	6.0	Southwest	Light	Clear
Mon. 5		30.146	91.0	67.0	56.0	11.0	Southward	Light	Clear
Tues. 6		30.076	104.0	75.0	53.0	22.0	Northwest	Airs	Clear
Wed. 7		30.200	106.0	76.0	54.0	22.0	Eastward	Light	Foggy
Thu. 8		30.256	85.0	69.5	52.0	17.5	Westward	Light	Clear
Fri. 9		30.238	89.0	69.0	61.0	8.0	W. S. W.		
Sat. 10	○	30.224		62.0	62.0	0.0	East	Light	Cloudy
Sun. 11		29.800		75.0	67.0	8.0	S'd & W'd	Moderate	Cloudy
Mon. 12		29.768	88.0	70.0	65 0	5.0	N. N. W.	Fresh	Clear
Tues. 13		30.026	78.0	66.0	58.0	8.0	S'd & W'd	Moderate	Clear
Wed. 14		29.922	73.0	68.0	61.0	7.0	Southward	Moderate	Cloudy
Thu. 15		30.063	69.0	61.0	42.0	19.0	Northeast	Light	Pas'g
Fri. 16		30.252	66.0	54.5	25.0	28.5	Northeast	Fresh	Clear
Sat. 17	☾	30.332		52.5	52.5	0.0	S'd & W.	Light	Rain
Sun. 18		30.278		59.0	55.0	4.0	S'd & W.	Light	Cloudy
Mon. 19		30.090		76.0	66.0	10.0	Southward	Fresh	Cloudy
Tues. 20		30.025		68.0	68.0	0.0	South	Light	Cloudy
Wed. 21		29.790		64.5	64.0	0.5	E. by N.	Light	Rain
Thu. 22		30.050	74.0	57.5	48.0	9.5	Northward	Fresh	Pas'g
Fri. 23		29.906	76.0	65.0	54.0	11.0	S'd & W.	Fresh	Clear
Sat. 24	●	30.168	73.0	50.0	37.0	13.0	Northward	Moderate	Clear
Sun. 25		29.995		45.0	35.0	10.0	W. N. W.	Fresh	Clear
Mon. 26		30.010	46.0	42.5	28.0	14.5	W. S. W.	Fresh	Clear
Tues. 27		30.282	61.0	44.0	44.0	0.0	S'd & W.	Moderate	Clear
Wed. 28		30.124	72.0	57.5	41.0	16.5	S. & E.	Moderate	Clear
Thu. 29		29.542		60.0	60.0	0.0	South	Fresh	Rain
Fri. 30		29.710	57.0	54.0	53.0	1.0	Northwest	Fresh	Cloudy
Sat. 31		29.908	55.0	52.5	47.0	5.5	Northwest	Fresh	Cloudy
Mean		30.056	77.25	62.66	53.68	8.98			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1840—Continued.

9 P. M.							Registering thermometers.		
Barometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	Rain or snow.
		Dew point.	Difference.	Direction.	Force.				
Inches.	°	°	°				°	°	*Inches.*
30.152	69.0	65.0	4.0	E. N. E.	Light	Pas'g cl'ds	77.0	52.0	
30.048	71.5	70.5	1.0	South	Moderate	Cloudy	81.0	63.0	0.02
30.232	50.0	43.0	7.0	Northwest	Light	Clear	68.0	45.0	0.08
30.236	47.0	46.0	1.0	W. S. W.	Airs	Clear	62.0	34.5	
30.152	61.0	51.0	10.0	S. S. W.	Airs	Clear	68,0	40.0	
30.111	55.0	51.0	4.0	East	Airs	Clear	74.5	52.5	
30.218	57.0	52.0	5.0	S'd & E'd	Airs	Hazy	75.0	52.0	
30.278	56.0	55.0	1.0	N'd & E'd	Airs	Clear	70.0	50.0	
30.240	64.0	62.0	2.0	Northeast	Light	Clear	73.0	50.0	
30.192	60.0	59.0	1.0	South	Airs	Cloudy	64.0	58.0	0.20
29.750	69.0	67.0	2.0	S'd & W'd	Airs	Pas'g cl'ds	77.0	58.0	
29.900	65.0	56.0	9.0	N'd & W'd	Moderate	Clear	76.0	58.0	
29.986	53.0	50.0	3.0	Southwest	Light	Cloudy	63.0	42.5	
29.972	58.0	55.0	3.0	N'd & E'd	Light	Cloudy	69.0	42.0	
30.172	48.0	34.0	14.0	Northeast	Moderate	Clear	60.0	44.0	
30.314	38.5	31.0	7.5	Northeast	Light	Clear	54.5	38.5	0.05
30.350	55.0	55.0	0.0	Southward	Light	Rain	55.0	35.0	0.25
30.270	60.5	58.0	2.5	East	Light	Cloudy	63.0	52.0	
30.090	66.0	66.0	0.0	S'd & E'd	Light	Rain	74.0	60.0	0.80
30.050	66.0	66.0	0.0	Northeast	Light	Rain	68.0	62.0	2.00
29.700	64.5	63.0	1.5	Northwest	Light	Cloudy	64.5	62.0	
30.084	45.5	42.0	3.5	S. S. E.	Airs	Clear	60.0	39.5	
29.910	54.0	49.0	5.0	S'd & W'd	Airs	Clear	65.0	38.0	
30.151	39.0	32.0	7.0	N. N. E.	Light	Clear	56.0	34.0	
30.020	34.0	31.0	3.0	N. N. W.	Fresh	Clear	47.0	30.0	
30.150	35.0	35.0	0.0	West	Moderate	Clear	46.0	30.0	
30.281	34.0	23.0	11.0	Southward	Airs	Clear	44.0	22.0	
30.140	51.0	48.0	3.0	Southward	Light	Cloudy	58.0	31.0	
29.550	60.0	60.0	0.0	S'd & W'd	Moderate	Rain	63.0	45.0	1.80
29.750	50.0	45.0	5.0	Westward	Light	Cloudy	59.0	50.0	
30.020	42.0	36.0	6.0	W. N. W.	Airs	Clear	63.0	36.0	
30.079	54.14	50.21	3.93				64.43	45.37	4.700

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1840.

Days of the month.	Phases of the moon.	3 A. M.					
		Barometer.	Dry thermometer.	Hygrometer.		Wind.	
				Dew point.	Difference.	Direction.	Force.
		Inches.	°	°	°		
Sun. 1		30.116	36.5	29.0	7.5	West	Airs
Mon. 2	☽	30.310	33.0	29.0	4.0	E. N. E.	Light
Tues. 3		30.295	38.0	30.0	8.0	Northeast	Airs
Wed. 4		30.100	39.0	32.0	7.0	North	Airs
Thu. 5		30.098	40.0	35.0	5.0	N'd & E'd	Light
Fri. 6		29.995	47.0	39.0	8.0	Calm	Calm
Sat. 7		30.058	43.0	38.0	5.0	Eastward	Airs
Sun. 8		29.950	48.0	48.0	0.0	Eastward	Squally
Mon. 9	○	29.732	46.0	45.0	1.0	N'd & W'd	Squally
Tues. 10		29.928	45.0	36.0	9.0	Northwest	Fresh
Wed. 11		30.050	36.5	31.0	5.5	Northwest	Light
Thu. 12		30.010	40.0	37.0	3.0	Northward	Light
Fri. 13		29.900	37.0	34.0	3.0	N'd & W'd	Light
Sat. 14		30.101	42.0	33.0	9.0	Northward	Airs
Sun. 15		29.604	43.0	35.0	8.0	N. N. W.	Airs
Mon. 16	☾	29.850	35.0	28.0	7.0	N'd & W'd	Airs
Tues. 17		30.020	29.0	27.0	2.0	S'd & W'd	Light
Wed. 18		29.850	30.0	30.0	0.0	N'd & E'd	Fresh
Thu. 19		29.800	28.0	24.0	4.0	Northwest	Fresh
Fri. 20		30.002	28.5	19.0	9.5	S. S. W.	Light
Sat. 21		30.158	27.0	19.0	8.0	N'd & W'd	Airs
Sun. 22		30.000	33.0	29.0	4.0	Northward	Airs
Mon. 23	●	29.484	52.0	51.0	1.0	South	Light
Tues. 24		29.986	42.0	34.0	8.0	N'd & W'd	Light
Wed. 25		30.030	42.0	33.0	9.0	N'd & E'd	Light
Thu. 26		29.750	42.0	39.0	3.0	N'd & E'd	Airs
Fri. 27		29.970	31.0	24.0	7.0	N'd & E'd	Fresh
Sat. 28		30.200	38.0			Southwest	Light
Sun. 29		30.050	39.0	33.0	6.0	Southward	Moderate
Mon. 30		29.846	40.0	32.0	8.0	N'd & E'd	Moderate
Mean		29.974	38.35	31.66	5.50		

REMARKS.

November 2.—The Indian summer commenced this day.

November 5.—At 8*h*. 30*m*. P. M., a lunar halo; diameter, 43° 10′.

November 8.—At 1*h*. 35*m*. P. M., commenced blowing violently from the northward and westward, with rain.

November 9.—A gale during the day, from the northward and westward.

November 10.—Gale continued.

November 12.— At 1*h*. A. M., a lunar halo.

November 13.—At 8*h*. 9*m*. P. M., observed a faint aurora extending from north by west to northeast. At 9*h*. 45*m*., entirely dispersed. No indications of *meteors*.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.250	75 0	45.0	41.0	4.0	N. N. W.	Moderate	Clear.
30.400		44.5	39.0	5.5	Northeast	Light	Clear.
30.268	49.0	46.0	42.0	4.0	Northeast	Moderate	Clear.
30.120	71.0	53.5	50.0	3.5	Northeast	Moderate	Clear
30.100		48.0	45.0	3.0	S'd & W'd	Light	Foggy.
30.050	58.0	49.0	46.0	3.0	Northward	Moderate	Clear.
29.975	68.0	49.5	34.0	15.5	N. N. E.	Light	Clear.
29.933		53.0	52.0	1.0	Northeast	Light	Rain.
29.812		52.5	47.0	5.5	Northwest	Fresh	Cloudy.
29.986		48.0	39.0	9.0	N'd & W'd	Fresh	Clear.
30.130	62.0	42.0	36.0	6.0	Northward	Fresh	Clear.
30.006	70.0	43.0	39.0	4.0	Northeast	Airs	Clear.
29.954	40.0	44.0	40.0	4.0	Northwest	Airs	Clear.
30.001		41.5	37.0	4.5	Northeast	Airs	Clear.
29.700		45.5	32.0	13.5	N'd & W'd	Fresh	Cloudy.
30.000		36.0	36.0	0.0	S'd & W'd	Light	Snow.
30.006		35.5	34.0	1.5	S. S. W.	Light	Clear.
29.800		33.0	30.0	3.0	Northeast	Moderate	Snow.
29.872		41.0	35 0	6.0	Northwest	Moderate	Clear.
30.106		35.0	28.0	7.0	N'd & W'd	Light	Clear.
30.200	44.0	31.0	22.0	9 0	Northward	Airs	Clear.
29.860		40.0	40.0	0.0	Northeast	Light	Rain.
29.562		51.0	45.0	6.0	Northwest	Moderate	Cloudy.
30.150	52.0	35.0	34 0	1.0	Southwest	Airs	Clear.
29.980		39.0	36 0	3.0	Northeast	Moderate	Rain.
29.840		43.5	40.0	3.5	W. by N.	Moderate	Clear.
30.126	44.0	35.0	28.0	7.0	N'd & W'd	Light	Clear.
30.200		34.0			S'd & W'd	Light	Cloudy.
30.050	44.0	31.0	28.0	6.0	South	Moderate	Clear.
29.850		48.5	47.0	1.5	Southward	Light	Cloudy.
30.009	56.41	42.55	38.00	4.85			

REMARKS—Continued.

November 18.—At 3*h*. A. M., commenced snowing.

November 19.—A fresh gale from northward and westward.

November 30.—At 4*h*. 50*m*. P. M., a narrow pencil of bright rosy light, about 30′ diameter, having the sun for its base, making an angle with the horizon of 35°, and about 50° in length. It was of equal width throughout its length, and continued 20 minutes, the brightest part disappearing first.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1840—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Sun.	1		30 250	72.0	55.0	42.0	13.0	North	Light	Clear
Mon.	2	☽	30.384	72.0	55 0	38.0	17 0	E. N. E.	Light	Clear
Tues.	3		30.140	83.0	62.0	45.0	17.0	Northeast	Light	Clear
Wed.	4		30.074	73.0	65.0	47.0	18.0	Northeast	Fresh	Clear
Thu.	5		30.012	78.0	59.5	49.0	10.5	N'd & W'd	Light	Clear
Fri.	6		29.980	86.0	61.0	57.0	4.0	Northwest	Moderate	Clear
Sat.	7		30.018		56.0	41.0	15.0	E. S. E.	Light	Cloudy
Sun.	8		29.800		53.0	51 0	2.0	Eastward	Light	Cloudy
Mon.	9	○	29.850	67.0	55.0	47.0	8.0	N'd & W'd	Fresh	Cloudy
Tues.	10		30.000	68.0	58.5	45.0	13.5	N'd & W'd	Fresh	Pas'g'd s
Wed.	11		30.060	68 0	53.0	49.0	4.0	North	Moderate	Clear
Thu.	12		29.912	80.0	57.5	50.0	7.5	Northwest	Light	Clear
Fri.	13		29.910	80.0	56.0	36.0	20.0	W. S. W.	Moderate	Clear
Sat.	14		29.822	55 0	54.0	47.0	7.0	Southeast	Moderate	Cloudy
Sun.	15		29.838	64.0	45.0	32.0	13.0	N'd & W'd	Fresh	Clear
Mon.	16	☾	30.000		35.0	35.0	0.0	W. S. W.	Light	Snow
Tues.	17		29.888	56.0	40.0	32.0	8.0	South	Moderate	Pas'g'd.
Wed.	18		29.652		34.0	27.0	7.0	Northward	Fresh	Cloudy
Thu.	19		29.930	46.0	39.0	33.0	6.0	Northwest	Gale	Clear
Fri.	20		30.100	64.0	41.0	32 0	9.0	N'd & W'd	Moderate	Clear
Sat.	21		30.110	69.0	41.0	27.0	14.0	Northward	Airs	Clear
Sun.	22		29.584		54.0	54.0	0.0	South	Light	Rain
Mon.	23	●	29.772	62.0	47.5	35.0	12.5	N'd & W'd	Fresh	Pas'g'd
Tues.	24		30.130		44.0	30.0	14.0	S'd & W'd	Moderate	Cloudy
Wed.	25		29.800		45.0	45.0	0.0	Eastward	Moderate	Rain
Thu.	26		29.800		38.5	32.0	6.5	N'd & W'd	Fresh	Cloudy
Fri.	27		30.162	60.0	38.0	24.0	14.0	N'd & W'd	Moderate	Clear
Sat.	28		30.090		43.5			S'd & W'd	Light	Cloudy
Sun.	29		29.920		63.0	40.0	23.0	S. S. W.	Fresh	Cloudy
Mon.	30		29.800		53.0	52.0	1.0	Southward	Moderate	Cloudy
Mean			29.936	66.64	49.93	40.48				

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1840—Continued.

9 P. M.							Registering thermometers.		
ometer.	Dry thermometer.	Hygrometer.		Wind.		Weather.	Maximum.	Minimum.	Rain or snow.
		Dew point.	Difference.	Direction.	Force.				
hes.	°	°	°				°	°	Inch.
290	39.0	36.0	3.0	Eastward	Light	Clear	54.0	32.0	
356	44.5	35.0	9.5	Northeast	Light	Clear	55.0	29.5	
154	45.0	42.0	3.0	Northward	Airs	Clear	62.0	38.0	
090	49.5	47.0	2.5	N'd & E'd	Light	Clear	65.0	36.0	
012	48.0	44.0	4.0	South	Airs	Hazy	68.0	34.0	
020	47.0	43.0	4.0	East	Airs	Clear	60.0	41.0	
050	58.0	46.0	12.0	S'd & W'd	Light	Cloudy	57.0	41.0	
723	51.5	49.0	2.5	Northward	Airs	Cloudy	58.0	48.0	0.10
922	46.0	38.0	8.0	Northwest	Fresh	Clear	54.0	43.5	
050	46.0	39.0	7.0	N'd & W'd	Fresh	Clear	57.5	42.0	
050	40.5	37.0	3.5	Northward	Light	Clear	53.0	34.0	
902	40.5	37.0	3.5	N'd & W'd	Light	Foggy	59.0	40.0	
020	45.0	31.0	14.0	Westward	Light	Clear	56.0	37.0	
666	49.0	47.0	2.0	N'd & E'd	Light	Cloudy	58.5	30.0	
850	36.0	25.0	11.0	N'd & W'd	Light	Clear	46.0	29.0	
960	32.0	29.0	3.0	Westward	Light	Clear	38.0	30.0	
900	36.0	31.0	5.0	South	Moderate	Pas'g cl'ds	41.0	26 0	
700	30.0	24.0	6.0	North	Fresh	Snow	34.0	30.0	*0.55
974	30.0	22.0	8.0	S. S. W.	Light	Clear	39.0	25.0	
150	31.0	24.0	7.0	N'd & W'd	Light	Clear	40.0	27.0	
125	33.0	25.0	8 0	Northeast	Airs	Clear	41.0	27.0	
404	58.0	58.0	0.0	South	Light	Rain	58.5	20.5	0.95
962	49.0	33.0	16.0	N'd & W'd	Moderate	Clear	51.0		
100	42.0	40.0	2.0	S'd & W'd	Light	Cloudy	51.0	32.0	
750	43.0	42.0	1.0	Eastward	Airs	Rain	43.0	39.0	0.10
892	34.0	24.0	10.0	N'd & W'd	Moderate	Pas'g cl'ds	45.0	28 0	
200	29.0	22.0	7.0	S'd & W'd	Light	Clear	38.0	28.0	
074	34.5	29.0	5.5	Southward	Airs	Cloudy	43.0	23.0	
872	44.0	32.0	12.0	Southward	Moderate	Cloudy			
020	48.0	40.0	8.0	W. N. W.	Fresh	Clear	53.0	40.0	
974	41.67	35.70	5.97				50.81	33 23	1.700

REMARKS.

* Melted snow.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1840.

Days of the month.		Phases of the moon.	3 A. M.					
			Barometer.	Dry thermometer.	Hygrometer.		Wind.	
					Dew point.	Difference.	Direction.	Force.
			Inches.	°	°	°		
Tues.	1		30.150	34.0	33.0	1.0	Northeast	Light
Wed.	2	☽	30.306	19.0	13.0	6.0	Northward	Light
Thu.	3		30.276	24.0	19.0	5.0	S'd & W'd	Airs
Fri.	4		30.346	32.0	30.0	2.0	N'd & E'd	Fresh
Sat.	5		30.000	28.0	28.0	0.0	N'd & E'd	Gales
Sun.	6		30.150	26.0	25.0	1.0	N'd & E'd	Strong
Mon.	7		30.196	23.0	21.0	2.0	West	Light
Tues.	8	○	30.284	22.0	17.0	5.0	Northward	Airs
Wed.	9		30.050	22.0	19.0	3.0	Eastward	Airs
Thu.	10		29.900	24.0	23.0	1.0	Eastward	Airs
Fri.	11		30.120	31.0	27.0	4.0	Northwest	Moderate
Sat.	12		30.248	21.0	16.0	5.0	Northeast	Airs
Sun.	13		29.622	39.5	37.0	2.5	N'd & W'd	Light
Mon.	14		29.764	33.0	31.0	2.0	S'd & W'd	Light
Tues.	15	☾	29.732	29.0	26.0	3.0	S'd & E'd	Airs
Wed.	16		29.750	40.0	40.0	0.0	Southward	Moderate
Thu.	17		29.832	30.5	27.0	3.5	Southward	Airs
Fri.	18		29.978	25.0	19.0	6.0	N'd & W'd	Light
Sat.	19		30.200	16.5	11.0	5.5	N'd & W'd	Fresh
Sun.	20		30.217	16.0	8.0	8.0	N'd & W'd	Fresh
Mon.	21		30.167	25.0	17.0	8.0	N'd & W'd	Moderate
Tues.	22		30.000	30.0	23.0	7.0	S. S. E.	Light
Wed.	23	●	30.130	29.0	17.0	12.0	N'd & W'd	Fresh
Thu.	24		29.900	27.0	16.0	11.0	S. S. W.	Fresh
Fri.	25		30.025	18.0	10.0	8.0	Northwest	Fresh
Sat.	26		29.780	16.0	12.0	4.0	Northwest	Light
Sun.	27		29.538	32.0	27.0	5.0	Northwest	Light
Mon.	28		29.986	21.5	20.0	1.5	W. N. W.	Moderate
Tues.	29		30.084	24.0	19.0	5.0	N'd & E'd	Light
Wed.	30		30.170	24.0	18.0	6.0	N'd & E'd	Light
Thu	31	☽	30.087	33.5	33.0	0.5	N'd & E'd	Airs
	Mean		30.030	26.31	22.00	4.31		

REMARKS.

December 2.—At 6*h*. 30*m*. P. M., a lunar halo. At 8, its diameter was 47° 14'. It
peared at 10*h*. 30*m*.

December 4.—Snow began to fall at 11*h*. 30*m*. A. M., and continued till 11*h*. 30*m*. P

December 5.—Snow began to fall at 10*h*. 15*m*. A. M., and continued throughout the d

December 9.—A lunar halo at 6*h*. 30*m*., with a diameter 44° 24'. Disappeared at 7*h*.

December 11.—At 11*h*. 30*m*. P. M., a lunar halo 44° 02' in diameter. It continued
A. M. of the 12th.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1840—Continued.

9 A. M.

Barometer.	Thermometers.		Hygrometer.		Wind.		Weather.
	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°			
30.252		36.5	35.0	1.5	N'd & E'd	Light	Clouds.
30.356		24.0	21.0	3.0	N'd & E'd	Light	Clear.
30.276		31.5	27.0	4.5	S'd & E'd	Airs	Haze.
30.442		34.5	30.0	4.5	N'd & E'd	Fresh	Clouds.
30.233		27.0	27.0	0.0	N'd & E'd	Fresh	Clouds.
30.036		30.5	30.5	0.0	North	Fresh	Snow.
30.300		25.5	21.0	4.5	N'd & W'd	Light	Clear.
30.236		26.0	24.0	2.0	Northeast	Airs	Clouds.
30.060		24.0	22.0	2.0	East	Airs	Haze.
29.900	41.0	35.0	34.0	1.0	S. by E.	Airs	Clear.
30.254		31.0	28.0	3.0	S'd & E'd	Light	Clear.
30.150		29.5	26.0	3.5	N'd & E'd	Light	Light cl'ds.
29.688	43.5	37.0	34.0	3.0	South	Light	Clear.
29.800	44.0	36.0	29.0	7.0	Calm	Calm	Clear.
29.780	45.0	31.0	31.0	0.0	Eastward	Light	Clear.
29.730		40.0	38.0	2.0	Eastward	Light	Clouds.
29.876	52.0	29.0	19.0	10.0	S'd & W'd	Moderate	Clouds.
30.046	40.0	25.0	6.0	19.0	S'd & W'd	Fresh	Clear.
30.250	23.5	19.0	8.0	11.0	West	Fresh	Clear.
30.300		19.0	9.0	10.0	N'd & W'd	Light	Clear.
30.280		25.0	13.0	12.0	W. N. W.	Moderate	Clear.
29.850	47.0	37.0	29.0	8.0	S'd & E'd	Light	Clouds.
30.258		25.0	8.0	17.0	Northwest	Moderate	Clear.
29.938	31.0	29.5	22.0	7.5	West	Moderate	Clear.
30.150	24.0	23.0	13.0	10.0	N. by E.	Light	Clouds.
29.514		32.5	28.0	4.5	Southward	Light	Clouds.
29.640		32.0	20.0	12.0	N'd & W'd	Fresh	Clouds.
30.128	51.0	25.0	14.0	11.0	Northwest	Moderate	Clear.
30.136	32.0	27.5	23.0	4.5	Calm	Calm	Clear.
30.220	36.0	35.0	32.0	3.0	N. N. E.	Light	Cloudy.
30.074		37.5	35.0	2.5	N'd & E'd	Airs	Cloudy.
30.069	38.46	29.68	24.34	5.34			

REMARKS—Continued.

December 14.—A lunar halo visible at 4 A. M.

December 22.—A gale commenced from northwest at 2 P. M. Moderated at 4 A. M., 23d.

December 23.—Gale from S. S. W. till 3 A. M.

December 26.—At 9*h.* 15*m.*, a brilliant meteor to the northeast, equal in magnitude to the planet Venus. When first seen, its altitude was about 30°, and it was descending at an angle of 75° to the horizon. Its duration was 7″, disappearing at 8° above the horizon.

December 27.—A gale commenced at 5 A. M.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1840—Continued.

Days of the month.		Phases of the moon.	3 P. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		W
				Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Tues.	1		30.274	53.0	35.5	25.0	10.5	S'd & E'd	Light	Clear
Wed.	2	☽	30.292	68.0	34.0	23.0	11.0	S'd & W'd	Light	Clear
Thu.	3		30.254	68.0	48.0	20.0	28.0	Northeast	Light	Clear
Fri.	4		30.350		28.0	28.0	0.0	Northeast	Fresh	Snow
Sat.	5		30.170		27.0	27.0	0.0	Northeast	Fresh	Snow
Sun.	6		29.990		29.0	29.0	0.0	N'd & W'd	Fresh	Snow
Mon.	7		30.308	66.5	35.0	28.0	7.0	Northwest	Light	Clear
Tues.	8		30.112		40.0	29.0	11.0	S'd & W'd	Airs	Clou
Wed.	9	○	29.990	44.0	36.0	28.0	8.0	S'd & E'd	Airs	Clear
Thu.	10		29.900		44.0	39.0	5.0	S. by E.	Airs	Clou
Fri.	11		30.250	72.0	41.0	38.0	3.0	Calm	Calm	Clear
Sat.	12		29.950		37.0	37.0	0.0	Northward	Light	Rain
Sun.	13		29.712		41.0	38.0	3.0	South	Light	Clear
Mon.	14		29.736	50.0	43.0	40.0	3.0	South	Light	Clear
Tues.	15		29.630	58.0	49.0	40.0	9.0	South	Light	Haz
Wed.	16	☾	29.782		37.5	37.5	0.0	Northeast	Light	Clo
Thu.	17		29.870	36.0	34.5	18.0	16.5	S'd & W'd	Moderate	Cle
Fri.	18		30.094	46.0	25.0	6.0	19.0	Northwest	Fresh	Clear
Sat.	19		30.184		24.0	10.0	14.0	Northwest	Fresh	Cle
Sun.	20		30.200	40.0	27.0	11.0	16.0	Southwest	Moderate	Clear
Mon.	21		30.274	54.0	33.5	20.0	13.5	West	Light	Clear
Tues.	22		29.822	56.0	38.5	24.0	14.5	N'd & W'd	Fresh	Fg
Wed.	23	●	30.176	51.0	33.5	17.0	16.5	West	Moderate	Clear
Thu.	24		29.932	45.0	40.5	23.0	17.5	W. by N.	Light	Clo
Fri.	25		30.029	43.0	28.0	13.0	15.0	S. by E.	Moderate	Clear
Sat.	26		29.334		36.0	35.0	1.0	Southward	Light	Clou
Sun.	27		29.750	45.0	26.0	11.0	15.0	N'd & W'd	Fresh	Clo
Mon.	28		30.098	56.0	34.5	14.0	17.5	West	Moderate	Clear
Tues.	29		30.100	45.0	42.0	28.0	14.0	North	Light	Clear
Wed.	30		30.100	44.0	43.5	39.0	4.5	E. by N.	Light	Cl
Thu.	31	☽	30.090	62.0	42.0	39.0	3.0	Variable	Light	Clear
Mean			30.024	52.26	35.92	26.28	9.64			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1840—Continued.

9 P. M.							Registering thermometers.		
		Hygrometer.		Wind.					
Barometer.	Dry thermometer.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
Inches.	°	°	°				°	°	*Inches.*
30.266	26.0	21.0	5.0	Calm	Calm	Clear	59.0	22.0	
30.282	29.0	22.0	7.0	Eastward	Airs	L't cl'ds	38.0	18.0	
30.300	36.0	35.0	1.0	Northeast	Airs	Clear	49.0	23.0	
30.350	28.0	28.0	0.0	Northeast	Strong	Snow	40.0	27.0	*0.55
30.190	26.0	26.0	0.0	Northeast	Strong	Snow	28.0	26.0	
30.100	26.0	26.0	0 0	Northwest	Moderate	Snow	30 0	26.0	
30.332	22.0	17.0	5.0	Northward	Airs	Clear	36.0	15.0	*1.00
30.092	24.0	21.0	3.0	S'd & W'd	Airs	Fog	44.0	13.0	
29.930	25.0	20.0	5.0	N'd & E'd	Airs	Clear	40.0	22.0	
30.050	40.0	36.0	4.0	W. by S.	Moderate	Clear	44.0	24.0	
30.282	24.0	21.0	3.0	Northeast	Airs	Clear	47.0	18.0	
29.722	40.0	40.0	0.0	Northeast	Light	Rain	35.0	18.0	0.95
29.760	37.0	29.0	8.0	East	Airs	Clear	44.0	24.0	
29.720	32.0	27.0	5.0	North	Airs	Clear	43.0	23.0	
29.750	41.0	41.0	0.0	South	Moderate	Haze	49.0	29.0	
29.788	32.0	30.0	2.0	S. S. W.	Airs	Clear	57.0	23.5	0.60
29.950	25.0	18.0	7 0	S'd & W'd	Moderate	Cloudy	35.0	12.0	
30.200	19.0	5.0	14 0	Northwest	Moderate	P'g cl'ds	32.0	1.0	
30.216	19.0	7.0	12.0	Northwest	Fresh	Clear	24.0	5.0	
30.150	26.0	12.0	14.0	Westward	Moderate	Haze	27.0	7.0	
30.190	27.0	22.0	5.0	South	Airs	Haze	32.5	12.0	
30.000	33.0	19.0	14.0	N'd & W'd	Fresh	Clear	42.0	11.0	
29.996	29.0	13.0	16.0	S. S W.	Moderate	Clear	36.0	7.0	
29.966	32.0	24.0	8.0	Northwest	Fresh	Clouds	42.0	8.0	
29.910	26.0	17.0	9.0	S'd & W'd	Light	Clouds	36.0	17.0	
29.500	29.0	25.0	4.0	Northwest	Light	Clear	44.0		
29.861	23.0	17.0	6.0	W. N. W.	Strong	Cloudy	32.0	22.0	
30.070	29.0	20.0	9.0	West	Light	Clear		22.0	
30.156	31.5	22.0	9.5	N'd & E'd	Light	Clear	42.0	20.0	
30.132	34.0	33.0	1.0	N'd & E'd	Airs	Cloudy	43.0	24.0	
30.136	36.5	28.0	8.5	North	Light	Cloudy	51.5	28.0	0.40
30.043	29.29	23.29	6.00				40.10	18.42	3.50

REMARKS.

* Melted snow.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1841.

Days of the month.	Phases of the moon.	3 A. M.							
			Thermometers.		Hygrometer.		Wind.		
		Barometer.	Attached.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.
		Inches.	°	°	°	°			
Fri. 1		30.092	41.0	32.0	23.0	9.0	Northeast	Moderate	Stratus
Sat. 2					Too	low	Northeast	Moderate	Stratus
Sun. 3		29.868	22.0	8.0	to	be	W. N. W.	Fresh	Clear
Mon. 4		29.120	18.0	9.0	obser	ved.	N'd & E'd	Light	Cloudy
Tues. 5		30.313	21.0	14.0	14.0	0.0	Northeast	Light	Cirrus
Wed. 6		30.265	29.0	32.0	32.0	0.0	Northwest	Light	Rain
Thu. 7	○	29.942	44.0	38.0	38.0	0.0	S'd & E'd	Light	Cir. strat
Fri. 8		29.940	47.0	48.0	46.0	2.0	Northwest	Fresh	Clear
Sat. 9		30.100	45.0	32.0	25.0	7.0	Northwest	Light	Clear
Sun. 10		30.112	35.0	34.0	34.0	0.0	Northeast	Airs	Rain
Mon. 11		29.850	48.0	37.0	37.0	0.0	S'd & W'd	Moderate	He'vy rain
Tues. 12		30.062	46.0	40.0	32.0	8.0	S'd & W'd	Moderate	Clear
Wed. 13		30.214	47.0	34.0	30.0	4.0	S'd & W'd	Airs	Cloudy
Thu. 14	☾	30.060	44.0	34.0	34.0	0.0	N'd & E'd	Light	Light ra
Fri. 15		30.223	38.0	32.5	32.5	0.0	N'd & E'd	Moderate	Rain
Sat. 16		30.304	45.0	36.0	32.0	4.0	Northwest	Light	Cloudy
Sun. 17		30.000	45.0	36.0	36.0	0.0	S'd & W'd	Moderate	Misty
Mon. 18		30.158	37.0	28.0	18.0	10.0	Northwest	Fresh	Cle
Tues. 19		30.668	30.0	14.0	10.0	4.5	N'd & W'd	Fresh	C
Wed. 20		30.612	32.0	18.0	15.0	3.0	N. by E.	Fresh	C
Thu. 21		30.000	40.5	34.0	34.0	0.0	Northeast	Moderate	R
Fri. 22	●	29.906	35.5	32.0	27.0	5.0	N'd & W'd	Fresh	Cl
Sat. 23		29.800	37.0	28.0	28.0	0.0	Northward	Light	Snow
Sun. 24		29.920	38.0	26.0	20.0	6.0	Northwest	Light	Clear
Mon. 25		29.815	38.0	26.0	19.0	7.0	S'd & W'd	Light	Clear
Tues. 26		30.194	42.0	29.0	25.0	4.0	E. N. E.	Light	Clear
Wed. 27		29.950	43.0	32.0	24.0	8.0	S'd & W'd	Light	Cirrus
Thu. 28		30.020	45.0	37.0	30.0	7.0	S'd & W'd	Light	Clear
Fri. 29		30.200	43.0	36.0	34.0	2.0	Northeast	Moderate	Cloudy
Sat. 30	☽	30.097	46.0	35.0	25.0	10.0	N. N. W.	Light	Clear
Sun. 31		30.184	46.0	30.5	24.0	6.5	Southwest	Light	Clear
Mean		30.066	38.96	30.07	27.80	3.82			

REMARKS.

January 1, 1841.—At 5 A. M., commenced snowing, wind from northward and eastwar and continued until 4*h*. 5*m*. P. M.; at 9*h*., wind from northward and westward, and clear.

January 5.—At 5 P. M., commenced snowing, continued until 7 P. M.; 11*h*. 30*m*. P. M light rain until 6*h*. 30*m*. A. M.

January 6.—Commenced with light airs from northward and westward, with a dense f and rain. At 7*h*. 30*m*., wind shifted to northward and eastward. At 10 P. M., fog disperse still raining. At midnight, foggy.

January 8.—At 2*h*. 20*m*. cleared, wind hauled to northwest, fresh.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1841—Continued.

9 A. M.

Barometer.	Thermometers.			Hygrometer.		Wind.		Weather.
	Attached.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°	°			
29.884	40.0		24.0	24.0	0.0	N. N. E.	Fresh	Cirrus.
29.590	36.0		22.0	13.0	9.0	Southwest	Light	Clear.
29.962	24.0	22.0	5.5	Too	low.	Northwest	Light	Clear.
30.190	25.0	19.0	17.0	10.0	7.0	E. N. E.	Light	Cirrus.
30.426	28.0	32.0	23.0	12.0	11.0	Northeast	Light	Cirrus.
30.220	33.5		33.0	33.0	0.0	N'd & W'd	Airs	Rain.
29.862	45.5		55.0	55.0	0.0	S. S. E.	Light	Rain.
30.078	49.0	50.0	42.0	40.0	2.0	North	Moderate	Clear.
30.171	48.0	49.0	35.0	27.0	8.0	N. by W.	Light	Clear.
30.100	48.0		41.0	41.0	0.0	N'd & E'd	Light	Light rain.
29.872	47.0		37.0	37.0	0.0	N'd & E'd	Light	Light rain.
30.242	46.0	50.0	41.0	34.0	7.0	Northwest	Light	Cirrus.
30.150	47.0		34.0	34.0	0.0	Northeast	Moderate	Snow.
30.186	44.0		33.0	33.0	0.0	Northeast	Moderate	Light rain.
30.222	44.5		38.0	37.0	1.0	Northeast	Light	Cloudy.
30.360	45.0		36.5	35.0	1.5	S'd & E'd	Light	Cloudy.
29.838	44.0		37.6	37.0	0.0	Southwest	Light	Rain.
30.450	34.0	17.0	16.5	5.0	11.5	Northwest	Fresh	Clear.
30.800	31.0	19.0	15.0	7.0	8.0	Northwest	Fresh	Cirrus.
30.550	31.0		20.0	20.6	0.0	Northward	Fresh	Snow.
29.900	38.5		34.0	34.0	0.0	N'd & E'd	Moderate	Light rain.
30.014	36.0		31.0	23.0	8.0	N. N. W.	Moderate	Cirrus strat.
29.904	40.0	35.0	32.0	30.0	2.0	Calm	Calm	Clear.
29.891	41.0	43.0	32.0	27.0	5.0	Southward	Moderate	Clear.
29.916	44.0		37.0	31.0	6.0	Southward	Light	Clear.
30.286	42.0	36.0	30.5	28.0	2.5	N'd & E'd	Light	Hazy.
29.918	45.5		42.0	42.0	0 0	South	Airs	Light rain.
30.136	46.0	42.0	38.0	37.0	1.0	Calm	Calm	Foggy.
30.073	44.0		37.0	37.0	0 0	Northeast	Moderate	Rain.
30.150	47.0		43.5	41.0	2.5	Westward	Light	Stratus.
30.135	47.0		34.0	26.0	8.0	S'd & W'd	Airs	Cirrus.
30.112	40.81	34.50	32.15	29.74	3.37			

REMARKS—Continued.

January 9.—At 10*h*. 20*m*. P. M., wind from eastward, with light rain. At 8 A. M., the same.

January 11.—Wind moderate from southward and westward, and clear.

January 12.—At 10 A. M., a parhelion, measuring 45° 53′ in diameter, appeared, and lasted until 3 P. M.

January 17.—9*h*. 45*m*. P. M., commenced blowing fresh from northwest.

January 19.—At 5*h*. 30*m*., commenced snowing.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1841—Continued.

3 P. M.

Days of the month.		Phases of the moon.	Barometer.	Thermometers.			Hygrometer.		Wind.	
				Attached.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.
			Inches.	°	°	°	°	°		
Fri.	1		29.400	36.5		23.0	23.0	0.0	N'd & W'd	Fresh
Sat.	2		29.604	45.0	46.0	29.7	10.0	19.7	West	Mod.
Sun.	3		30.000	24.0		20.0	15.0	5.0	Northwest	Fresh
Mon.	4		30.210	52 0	55.0	22.5	20.0	2 5	W. by S.	Light
Tues.	5		30.364	31.0		31.5	31.0	0.5	Northeast	Light
Wed.	6		30.136	34.0		34.0	34.0	0.0	N'd & W'd	Airs
Thu.	7	○	29.764	47.0		56.5	56.0	0.5	S. S. E.	Mod.
Fri.	8		30.050	56.0		45.5	43.0	2.5	Southwest	Mod.
Sat.	9		30.130	49.0	50.0	44.0	37.0	7.0	North	Light
Sun.	10		30.050	52.5		40.0	38.0	2.0	North	Light
Mon.	11		29.750	38.0		44.0	42.0	2.0	S'd & W'd	Airs
Tues.	12		30.350	50.0	53.5	45 0	36.0	9.0	Northwest	Airs
Wed.	13		29.900	45.0		35.0	35.0	0.0	N. N. E.	Fresh
Thu.	14	☾	30.169	46 0		33.0	33.0	0.0	Northeast	Mod.
Fri.	15		30.200	45.0		41 0	39.0	2.0	West	Light
Sat.	16		30.242	45.0		38.5	37.0	1.5	S'd & E'd	Light
Sun.	17		29.728	45.0		46.0	45.0	1.0	South	Airs
Mon.	18		30.608	34.0	20.0	18.0	6.0	12,0	Northwest	Fresh
Tues.	19		30.740	33.0	23.0	23.0	9.0	14.0	N. by E.	Mod.
Wed.	20		30 354	32 0		26.0	26 0	0.0	Northward	Mod.
Thu.	21		29.800	40.0		38.0	37.0	1.0	N'd & W'd	Light
Fri.	22	●	29.938	43.0	58.0	35.0	26.0	9.0	Northwest	Light
Sat.	23		29.864	43.0	40.0	35.0	30.0	5.0	Northwest	Mod
Sun.	24		29.700	44.0		43.0	34.0	9.0	Southward	Mod.
Mon.	25		29.918	52.0	72.0	47.0	30.0	17.0	Westward	Light
Tues.	26		30.184	51.5	62.0	42.0	25.0	17.0	S'd & W'd	Light
Wed.	27		29.810	46.0		45.0	45.0	0 0	S. S. E.	Light
Thu.	28		30.150	55.0	54.0	52.0	42.0	10.0	Calm	Calm
Fri	29		29.871	45.0		41.0	39.0	2.0	N. N. E.	Mod.
Sat.	30	☽	30.128	52.0		43.0	41.0	2.0	Northward	Light
Sun.	31		30.056	45.5		39.5	30.0	9.5	S'd & W'd	Light
Mean			30.038	44.33	48.50	37.31	32.06	5.25		

REMARKS—Continued.

January 20.—At 9*h*., commenced snowing, continued until 3*h*. 30*m*. P. M., wh changed to rain.

January 21.—First part, rain; middle part, clear.

January 23.—At 3 P. M., snow.

January 31.—At 3 A. M., frame of the barometer broken; substituted another; the dif ence of readings being applied to all subsequent observations. At 7 P. M., a lunar ha diameter 48° 10 .

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1841—Continued.

9 P. M.								Registering thermometers.		
	Thermometers.		Hygrometer.		Wind.					
	Attached.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or snow.
hes.	°	°	°	°				°	°	Inches.
464	23 0	21.0	14.0	7.0	N'd & W'd	Light	Clear	38.0	18.0	1.20
772	27.0	14.0	6.0	8.0	N. N. W.	Mod.	Clear	30.0	2.0	
080	24.0	7.0	Too	low.	Northwest	Mod.	Clear	20.0	8.0	
262	25.0	13.5	13.0	0.5	E. by S.	Light	Cirrus	23.0	12.0	
350	29.0	28.0	27.0	1.0	Northeast	Light	Cir. strat.	30.0	5.0	
084	34.0	33.0	33.0	0.0	N'd & E'd	Light	Cir. strat.	44.0	32.0	1.10
830	49.0	50.0	49.0	1.0	S. S. E.	Light	Cir. strat.	60.0	30.0	0.87
070	49.0	37.0	36.0	1.0	West	Fresh	Calm	54.0	33.0	
154	47.0	35.0	34.0	1.0	Northeast	Airs	Fall. cl'ds	44.0	33.0	0.10
030	48.0	37.0	37.0	0.0	S'd & E'd	Airs	Cir. strat.	52.0	33.0	0.20
878	44.0	42.0	40.0	2.0	S'd & W'd	Light	Cloudy	40.0	32.0	0.40
250	51.0	37.0	35.0	2.0	Airs	Airs	Stratus	42.0	22.0	0.04
984	47.0	34.0	34.0	0.0	Northwest	Airs	Rain	42.5	33.0	
222	43.5	33.0	33.0	0.0	Northeast	Light	Rain	44.0	33.0	0.70
300	48.5	36.0	29.0	7.0	West	Light	Cloudy	39.0	16.0	
178	44.0	36.0	36.0	0.0	S'd & W'd	Fresh	Rain	40.0	34.0	0.45
896	45.0	42.0	38.0	4.0	Northwest	Light	Cirrus	52.0	29.0	
622	32.0	17.0	11.0	6.0	N'd & W'd	Light	Clear	38.0	12.0	
709	31.0	18.0	11.0	7.0	Eastward	Light	Cirrus	23 0	14.0	
234	40.5	32.0	32.0	0.0	Southeast	Mod.	Rain	42.0	11.5	1.00
850	38.5	35.0	31.0	4.0	N'd & W'd	Mod.	Clear	37.5	30.0	0.02
870	38.0	26.0	20.0	6.0	Calm	Calm	Clear	41.0	19.0	
932	38.0	28.0	24.0	4.0	Calm	Calm	Clear	40.0	28.0	
791	35.0	29.0	20.0	9.0	Westward	Mod.	Clear	43.0	26.0	
112	43.5	35.5	28.0	7.5	Northwest	Mod.	Clear	44.0	28.5	
080	43.5	35.5	27.0	8.5	S'd & W'd	Light	Cirrus	46.0	28.0	0.04
920	45.5	42.0	38.0	4.0	Calm	Calm	Cir. strat.	46.0	20 0	0.01
228	45.0	40.0	39.0	1.0	Northeast	Mod.	Cloudy	52.0	32.0	
000	36.0	37.0	34.0	3.0	N. by W.	Light	Clear	41.0	36.0	0.70
124	46.0	36.0	29.0	7.0	Southwest	Light	Cir. strat.	40.0	30.0	
016	45.0	34.0	24.0	10.0	S'd & E'd	Light	Cirrus	42.0	27.0	0.07
074	40.22	32.60	28.73	3.70				40.98	24.06	6.90

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1841.

Days of the month.		Phases of the moon.	3 A. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		W
				Attached.	Dry.	Dew point.	Difference.	Direction.	Force.	
			Inches.	°	°	°	°			
Mon.	1		29.919	44.5	35.0	28.0	7.0	S. & W.	Light	Stratus
Tues.	2		29.716	47.0	35.0	27.0	8.0	N. & W.	Moderate	Clear
Wed.	3		29.806	46.0	36.0	28.0	8.0	S. & W.	Light	Clear
Thu.	4		30.203	44.0	29.0	17.0	12.0	West	Light	Cirrus
Fri.	5	○	30.146	41.0	24.5	19.0	5.5	East	Light	Clear
Sat.	6		29.966	42.0	29.0	24.0	5.0	N. & W.	Light	Clear
Sun.	7		30.066	43.0	34.0	28.0	6.0	Northward	Light	Clear
Mon.	8		30.236	42.0	30.0	28.0	2.0	N. & W.	Light	Clear
Tues.	9		30.156	42.0	32.5	31.0	1.5	S. S. E.	Light	Cir. str.
Wed.	10		29.916	44.0	31.0	17.0	14.0	Northwest	Light	Clear
Thu.	11		30.056	40.0	19.0	15.0	4.0	N. & W.	Fresh	Clear
Fri.	12		30.096	27.0	8.0	Too	low	N. & W.	Fresh	Clear
Sat.	13	☾	30.026	23.5	10.0	to	be	N. & W.	Moderate	Clear
Sun.	14		29.916	21.0	11.0	obser	ved.	Calm	Calm	Clear
Mon.	15		29.886	26.0	17.0			Northwest	Moderate	Clear
Tues.	16		30.062	26.0	20.0	12.0	8.0	S. & W.	Light	Stratus
Wed.	17		29.680	35.0	32.0	21.0	11.0	Southward	Light	Cir. str.
Thu.	18		29.880	38.0	34.5	29.0	5.5	Northeast	Light	Clear
Fri.	19		29.756	39.0	27.0	16.0	11.0	Southward	Airs	Clear
Sat.	20		29.810	39.5	29.0	15.0	14.0	Northwest	Fresh	Clear
Sun.	21	●	29.550	42.0	31.5	25.0	6.5	Southwest	Light	Clear
Mon.	22		29.442	45.0	32.0	22.0	12.0	N. & E.	Light	Stratus
Tues.	23		29.410	47.0	31.0	18.0	13.0	S. & W.	Light	Clear
Wed.	24		29.900	39.0	31.0	25.0	4.0	Eastward	Fresh	Stratus
Thu.	25		30.060	41.0	15.0	9.0	6.0	Calm	Calm	Cloudy
Fri.	26		30.000	42.0	30.0	22.0	8.0	Calm	Calm	Stratus
Sat.	27		29.650	45.0	42.0	42.0	0.0	S'd & E'd	Squally	Rain
Sun.	28	☽	29.920	44.0	36.0	30.0	6 0	S. & W.	Moderate	Clear
Mean			29.906	39.51	27.57	22.83	7.42			

REMARKS.

February 1.—At 5*h*. 30*m*. A. M., light rain.

February 3.—At 8 A. M., commenced snowing.

February 5.—At 1*h*. 30*m*. A. M., a lunar halo, measuring 45° in diameter. At 6 P. a meteor appeared to the northward and eastward, moving from north to east, and gradually scending to the earth.

February 7.—At 5, commenced snowing, and continued to snow and rain until 9½ P.

February 9.—At 8 A. M., light snow. At 9*h*. 30*m*., commenced snowing very fast 10*h*. 20*m*., the wind came out from the north-northwest, fresh. Clear weather.

February 11.—At 3*h*. 15*m*., the wind freshened to a gale, with snow.

February 19.—At 1*h*. 30*m*., the wind hauled to the northward and westward, and st

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1841—Continued.

9 A. M.

Barometer.	Thermometers.			Hygrometer.		Wind.		Weather.
	Attached.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.	
Inches.	°	°	°	°	°			
29.806	46.0		37.0	37.0	0.0	E. N. E.	Light	Rain.
29.903	44.5		35.0	35.0	0.0	S. & E.	Light	L't rain.
29.826	47.0	46.0	42.0	34.0	8.0	Southward	Moderate	Cumulus.
30.376	44.0	42.0	29.5	20.0	9.5	Westward	Moderate	Clear.
30.120	44.0	34.0	24.5	22.0	2.5	N. & W.	Airs	Clear.
29.976	41.5		36.0	30.0	6.0	Calm	Calm	Cir. strat.
30.166	44.0		34.0	34.0	0.0	N'd & E'd	Light	Snow.
30.366	43.0	44.0	32.0	25.0	7.0	E. by N.	Moderate	Clear.
30.036	43.5		33.5	33.5	0.0	North	Light	Snow.
29.946	43.0	40.0	32.0	28.0	4.0	South	Moderate	Clear.
30.056	35.0		19.5	3.0	16.5	Northwest	Light	Clear.
30.096	28.0	30.0	12.5	Too	low	S'd & W.	Moderate	Clear.
30.216	29.0	37.0	14.0	Too	low	West	Fresh	Clear.
29.896	26.0		18.0	12.0	6.0	N. by E.	Moderate	Cir. strat.
29.986	28.0	38.0	18.5	Too	low	N'd & W.	Fresh	Clear.
29.932	31.0	60.0	28.0	10.0	18.0	Southwest	Moderate	Clear.
29.562	38.0	42.0	35.0	28.0	7.0	Calm	Calm	Hazy.
30.040	38.0	37.0	33.0	27.0	6.0	Northeast	Moderate	Cumulus.
29.600	43.0		31.0	26.0	5.0	S'd & W.	Light	Cir. strat.
29.824	42.0	40.0	34.0	24.0	10.0	N'd & W.	Moderate	Clear.
29.500	42.5	44.5	34.0	28.0	6.0	Southward	Light	Cirrus.
29.550	46.0	54.0	36.0	31.0	5.0	N'd & W.	Light	Stratus.
29.350	49.0	55.0	40.0	33.0	7.0	S'd & W.	Moderate	Clear.
29.950	46.0		23.0	23.0	0.0	N. & E.	Moderate	Snow.
30.174	41.0		28.0	25.0	3.0	Calm	Calm	Cir. strat.
30.018	42.0	52.0	35.0	34.0	8.0	Northeast	Light	Cirrus.
29.574	48.0		46.0	44.0	2.0	S'd & W.	Light	Cir. strat.
29 982	48.0	62.0	39.0	35.0	4.0	S'd & W.	Light	Clear.
29.922	40.89	43.97	30.72	27.22	5.60			

REMARKS—Continued.

gales. Clear weather. At 7 P. M., an auroral arch: centre bearing north-northeast; eastern extremity, east-northeast; northern extremity, north-northwest; altitude, 10°.

February 24.—At 8 A. M., snow. Wind from the northward and eastward.

February 27.—At 2*h*. 30*m*. A. M., heavy squalls of rain and wind from the southward and eastward.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1841—Continued.

3 P. M.

Days of the month.	Phases of the moon.	Barometer.	Thermometers.			Hygrometer.		Wind.	
			Attached.	Sun.	Dry.	Dew point.	Difference.	Direction.	Force.
		Inches.	°	°	°	°	°		
Mon. 1		29.466	45.0		36.0	36.0	0.0	E. N. E.	Light
Tues. 2		29.846	47.5	52.0	47.5	39.0	8.5	S'd & W'd	Light
Wed. 3		29.936	50.0	70.0	45.0	27.0	18.0	West	Strong
Thu. 4		30.296	46.0	52.0	37.5	32 0	5.5	W. by N.	Light
Fri. 5	○	30.000	45.0	55.0	40.0	32.0	8.0	N. & W.	Light
Sat. 6		29.956	43.0		39.0	35.0	4.0	W. N. W.	Light
Sun. 7		30.136	48.0		35.0	35.0	0.0	N'd & E'd	Light
Mon. 8		30.286	45.0	70.0	41.0	27.0	14.0	East	Light
Tues. 9		29.896	44.0		42.0	42.0	0.0	N. by W.	Light
Wed. 10		29.936	45.0	36.0	31.5	28 0	3.5	Northwest	Fresh
Thu. 11		29.936	34.5		22.5	4 0	18.5	Northwest	Fresh
Fri. 12		29 966	27.5		17.0	Too	low	N. & W.	Fresh
Sat. 13	☾	29.976	29.0	42.0	22.0	9.0	13.0	W. N. W.	Fresh
Sun. 14		29.836	33.0	46 0	24.5	8.0	16.5	Northw'd	Fresh
Mon. 15		30.006	30.5	52.0	25.0	7.0	18.0	W. N. W.	Mod.
Tues. 16		29.800	33.5	66.0	38.5	12.0	26.5	South	Mod.
Wed. 17		29.606	38.0		39.0	37.0	2.0	S'd & W'd	Light
Thu. 18		29.958	41.0	49.0	40.0	25.0	15.0	W. N. W.	Mod.
Fri. 19		29.564	43.0	51.0	43.0	31.0	12.0	N. & W.	Fresh
Sat. 20		29.682	44.0	75.0	47.0	38.0	9.0	N. & W.	Fresh
Sun. 21	●	29.400	45.0	64.0	54.5	25.0	29.5	Southwest	Light
Mon. 22		29.500	48.0	82.0	51.0	32.0	19.0	S'd & W.	Light
Tues. 23		29.421	52.0	84.0	59.0	35.0	24.0	N. N. W.	Strong
Wed. 24		30.010	44.0		27.0	27.0	0 0	N. & E'd	Light
Thu. 25		30.086	41.0		40.0	35.0	5.0	West	Light
Fri. 26		29.942	45.0		51.0	40.0	11.0	E. N. E.	Light
Sat. 27		29.578	49.5	64.0	49.5	45.0	4.5	Northwest	Mod.
Sun. 28	☽	29.850	50.0	65.0	54.0	30.0	24.0	Southwest	Light
Mean		29.853	45.25	56.58	39.21	28.63	11.44		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1841—Continued.

9 P. M.								Registering thermometers.		Rain or melted snow.
	Thermometers.		Hygrometer.		Wind.					
Barometer.	Attached.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	
Inches.	°	°	°	°				°	°	*Inch's.*
29.556	46.0	36.0	32.0	4.0	Northwest	Moderate	Cum. str.	42.0	21.0	0.90
29.836	46.0	38.0	36.0	6.0	S'd & W.	Light	Clear	48.0	31.0	
30.136	46.5	30.5	19.0	11.0	Southwest	Light	Clear	48.0	30.0	
30.256	48.0	28.0	15.0	13.0	East	Airs	Clear	41.0	24.0	
29.986	43.0	33 0	28.0	5.0	S. & W.	Airs	Cloudy	40.0	22.0	
30.046	47.0	33.5	25.0	14.5	North	Light	Clear	44.0	24.0	
30.206	46.0	33.0	33.0	0.0	N. & E.	Light	Snow	46.0	25.0	0.26
30.246	44.0	29.5	26.0	3.0	East	Light	Clear	39.5	26.0	
29.926	45.0	33.0	29.0	4.0	North	Light	Stratus	44.0	31.0	0.50
30.076	42.0	22.5	16.0	6.5	N'd & W.	Light	Clear	48.0	22.0	
30.096	28.0	10.0	Too	low	N'd & W.	Fresh	Clear	32.0	3.0	
30.016	25.0	13.0	Too	low	N. & W.	Fresh	Clear	26.0	1.5	
29.966	26.0	15.0	Too	low	Northwest	Moderate	Clear	22.0	10.0	
29.846	27.0	19.5	5.0	14.5	Northwest	Light	Clear	24.5	16.0	
30.056	28.0	21.5	Too	low	N. & W.	Moderate	Clear	24.5	17.5	
29.694	34.0	32.0	8.0	24.0	South	Moderate	Clear	33.0	10.0	
29.794	38.0	34.5	27.0	7.5	Northeast	Light	Cum. str.	43.0	30.0	
29.857	39.0	39.0	18.0	21.0	Northward	Light	Clear	40 0	29.0	
29.810	42.5	34.5	21.0	13.5	Northwest	Fresh	Clear	43.5	26.0	
29.630	44.0	34.0	25.0	9.0	S'd & W.	Moderate	Clear	51.0	31.0	
29.442	46.0	43.0	30.0	13.0	S'd & W.	Light	Stratus	54.0	17.0	
29.500	50.5	35.0	24.0	11.0	Calm	Calm	Stratus	59.0	32.0	
29.759	49.0	39.0	31.0	8.0	Northward	Moderate	Stratus	59.0	31.0	
30.074	45 0	16.0	8.0	8.0	N. & W.	Airs	Clear	33.0	16.0	0.10
30.062	44.0	31.5	26.0	5.5	Calm	Calm	Stratus	33.0	25.0	
29.876	46.5	42.0	42.0	0.0	East	Light	L't rain	49.0	10.0	0.01
29.800	47.0	42.0	38.0	4.0	S'd & W.	Moderate	Clear	51.0	13.0	0.02
29.860	50.5	37.0	25.0	12.0	West	Light	Clear	54.0	36.0	
29.908	41.94	30.48	24.46	9.08				41.86	21.77	1.79

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1841.

Days of the month.		Phases of the moon.	3 A. M.							
			Barometer.	Thermometers.		Hygrometer.		Wind.		
				Attached.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.
			Inches.	°	°	°	°			
Mon.	1		29.782	49.0	35.0	21.0	14.0	West	Airs	Clear
Tues.	2		29.834	50.0	31.5	27.0	4.5	E. by S.	Light	Clear
Wed.	3		29.750	44.0	39.5	31.0	8.5	Northwest	Moderate	Strat
Thu.	4		29.760	54.0	34.0	23.0	11.0	Northeast	Light	Clear
Fri.	5		30.130	41.0	27.0	27.0	0.0	Northeast	Moderate	Snow
Sat.	6		30.100	42.0	22.0	17.0	5.0	E. N. E.	Fresh	Snow
Sun.	7	○	30.150	43.5	35.0	35.0	0.0	West	Light	Hail
Mon.	8		29.350	47.0	38.0	26.0	12.0	Northwest	Light	Strat
Tues.	9		29.500	44.0	32.0	32.0	0.0	Northwest	Fresh	Rain
Wed.	10		30.118	44.0	34.0	28.0	6.0	East	Light	Cum. str
Thu.	11		29.884	43.5	32.5	32.5	0.0	Northeast	Light	Cum. str
Fri.	12		30.138	45.0	33.5	22.0	11.5	Southwest	Moderate	Cum. str
Sat.	13		29.276	43.0	29.0	29.0	0.0	Northwest	Fresh	Clear
Sun.	14	☾	29.730	44.0	35.0	34.0	1.0	South	Light	Strat
Mon.	15		30.076	41.0	18.0	0.0	0.0	W. N. W.	Light	Clear
Tues.	16		29.938	44.0	30.0	18.0	12.0	Southwest	Light	Strat
Wed.	17		30.150	41.0	25 0	25.0	0.0	Northeast	Fresh	Snow
Thu.	18		29.972	38.0	26.0	15.0	11.0	North	Strong	Clear
Fri.	19		29.946	41.0	33.0	19.0	14.0	Northwest	Light	Clear
Sat.	20		30.000	48.0	34.0	28.0	6.0	West	Airs	Clear
Sun.	21		30.020	55.0	45.0	30.0	15.0	Southwest	Airs	Clear
Mon.	22	●	30.192	56.0	42.0	30.0	10.0	North	Moderate	Clear
Tues.	23		29.784	56.5	45.0	29.0	6.0	East	Airs	Strat
Wed.	24		29.810	56.0	34.0	22.0	12.0	Northwest	Airs	Clear
Thu.	25		29.963	54.0	35.0	30.0	5.0	Calm	Calm	Clear
Fri.	26		30.050	53.0	44.0	37.0	7.0	Variable	Airs	Clear
Sat.	27		29.894	63.0	52.0	47.0	6.0	South	Airs	Clear
Sun.	28		29.752	53.0	49.0	36.0	3.0	South	Airs	Strat
Mon.	29	☽	29.780	64.0	44.0	44.0	0.0	Northeast	Strong	Rain
Tues.	30		29.650	65.0	45.0	40.0	5.0	Variable	Airs	Stratus
Wed.	31		30.174	56.0	36.0	30.0	6.0	N. N. E.	Light	Strat
Mean			29.859	52.53	35.35	28.71	6.64			

REMARKS.

March 2.—At 7*h*. 30*m*. P. M., a lunar halo; diameter 46° 20′.

March 3.—At 8*h*. P. M., a lunar halo; diameter 46° 30′, apparently elliptical; 9*h*. disappeared.

March 5.—At 2*h*. P. M., commenced snowing and hailing; wind from east-northeast.

March 6.—Until 1*h*. 30*m*. P. M., hail and snow, when it commenced raining heavily. 5*h*., thunder and lightning.

March 9.—At 4*h*. 50*m*. P. M , commenced snowing; wind at north.

March 12.—At 6*h*. 15*m*. A. M., commenced snowing.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1841—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
Inches.	°	°	°	°	°	*Inch.*			
29.800	50.0		44.0	42.0	35.0	.261	Southwest	Light	Clear.
29.880	50.0		38.5	38.0	32.0	.240	Southwest	Light	Stratus.
29.730	50.5	58.0	43.5		38.0		Northeast	Light	Cirrus.
29.974	50.5		37.5		33.0		Northeast	Moderate	Cloudy.
30.350	45.0		23.0	23.0	23.0	.144	N. by E.	Moderate	Sn'w&hail.
29.850	42.0		32.0		32.0		Northeast	Fresh	Snow.
29.476	46.0	52.0	39.0	37.0	35.0	.216	Southeast	Airs	Cirrus.
29.578	47.0		39.0	38.0	30.0	.235	Northwest	Moderate	Cloudy.
30.172	49.0	56.0	38.0	36.0	26.0	.208	W. N. W.	Light	Cirrus.
30.046	46.0		34.5		34.0		Northeast	Light	Snow.
30.042	44.0		39.0	35.0	33.0	.177	Northeast	Moderate	Cirrus.
30.138	44.0		30.0		30.0		Northeast	Fresh	Hail.
29.400	45.0	54.0	34.0	33.0	33.0	.196	Northwest	Fresh	Cumulus.
29.808	45.0		42.5		31.0		W. S. W.	Light	Stratus.
30.170	47.0	44.0	26.0		17.0		Northwest	Light	Stratus.
29.802	42.0		37.0	37.0	36.0	.238	North	Light	Stratus.
30.210	39.0	30.0	24.0		17.0		North	Fresh	Clear.
29.884	37.0		34.0		20.0		N. N. W.	Fresh	Clear.
30.084	44.0	72.0	45.0		18.0		W. N. W.	Light	Cirrus.
30.000	47.0	65.0	47.0	47.0	47.0	.337	Calm	Calm	Rain.
30.150	54.0	72.0	53.0	52.0	38.0	.389	West	Moderate	Clear.
30.236	53.5	56.0	42.0	40.0	35.0	.242	E. N. E.	Moderate	Clear.
29.660	60.0		55.5	54.0	55.0	.412	Southwest	Moderate	Cirrus.
29.886	55.0	67.0	43.0	40.0	40.0	.230	Southwest	Moderate	Rain.
30.000	59.0	70.0	63.0	62.0	41.0	.548	Southwest	Fresh	Clear.
30.030	58.0	77.0	55.5		47.0		South	Light	Clear.
29.876	61.0	75.0	61.0	60.0	52.0	.512	Southwest	Light	Clear.
29.792	65.0		65.0	60.0	60.0	.468	E. N. E.	Airs	Hazy.
29.750	60.0	49.0	45.0	45.0	45.0	.314	E. N. E.	Moderate	Cloudy.
29.726	55.0	72.0	54.0	54.0	54.0	.428	Northeast	Light	Rain.
30.210	52.0	50.0	44.0	40.0	33.0	.218	Southwest	Light	Cirrus.
29.935	49.43	58.21	42.14	*43.15	35.49	.301			

REMARKS—Continued.

March 13.—Strong winds from the westward. At 9*h*. P. M., rain and snow.

March 14.—From 8*h*. P. M. to 3*h*. A. M., heavy squalls.

March 16.—At 8*h*. P. M. to 6*h*. A. M., wind very fresh from the northward and eastward. At 0*h*. 30*m*. A. M., commenced snowing; at 4*h*. P. M., ceased.

March 17.—At 9*h*. 30*m*. A. M., commenced snowing, wind strong from northeast; continued until 9*h*. P. M.

* Caused by small number of observations.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1841—Continued.

Days of the month.	Phases of the moon.	3 P. M.								
			Thermometers.						Wind.	
		Barometer.	Attached.	Sun.	Dry.	Wet.	Dew point.	Force of vapor.	Direction.	Force.
		Inches.	°	°	°	°	°	*Inch.*		
Mon. 1		29.780	54.0	80.0	58.5	56.0	37.0	.431	Southwest	Light
Tues. 2		29.800	55.0	68.0	61.5		39.0		Calm	Calm
Wed. 3		29.632	55.0	71.0	54.0		30.0		Northeast	Light
Thu. 4		29.954	51.0		47.0	46.0	33.0	.315	East	Mod.
Fri. 5		30.300	44.0		26.0		10.0		Northeast	Fresh
Sat. 6		29.328	45.0		36.0	36.0	36 0	.230	Northeast	Fresh
Sun. 7	○	29.332	46.0		46.0		46.0		Calm	Calm
Mon. 8		29.758	47.0		41.0		30.0		Northwest	Fresh
Tues. 9		30.200	45.0	47.0	43.0	40.0	27.0	.230	W. N. W.	Mod.
Wed. 10		29.846	44.5		35.0	35.0	35.0	.222	Northeast	Mod.
Thu. 11		30.070	50.0	72.0	42.0	40.0	25.0	.242	North	Light
Fri. 12		29.850	45.0		30.0	30.0	30.0	.186	Northeast	Mod.
Sat. 13		29.400	46.0	50.0	44.0	40.0	33.0	.220	West	Fresh
Sun. 14	☾	29.750	46.5		45.5	45.5	45.5	.320	West	Mod.
Mon. 15		30.062	43.0		39.0	30.0	18.0	.083	Southwest	Light
Tues. 16		29.900	43.0		32.0	32.0	32.0	.199	Northeast	Fresh
Wed. 17		30.176	40.0		26.0	26.0	26.0	.161	N. by E.	Strong
Thu. 18		29.840	40.0		36.0		33.0		N. by E.	Fresh
Fri. 19		30.044	49 0	32.0	60.0	58.0	25.0	.467	West	Airs
Sat. 20		29.900	52.0		72.0	72.0	40.0	.775	Southwest	Airs
Sun. 21		30.120	58 0	82.0	59.0	58.0	41.0	.478	West	Mod.
Mon. 22	●	30.090	57.0	90.0	56.5	56.5	56.0	.465	East	Mod.
Tues. 23		29.600	60.0	90.0	48.0	48.0	48.0	.349	Northwest	Mod.
Wed. 24		29.874	56.0	64.0	58.0		42.0		Northwest	Airs
Thu. 25		30.000	59.0		43.0		41.0		Southwest	Fresh
Fri. 26		29.940	64.5	62.0	72.0	67.0	53.0	.603	S. S. W.	Light
Sat. 27		29.800	69.0	70.0	74 0	70.0	58.0	.683	Calm	Calm
Sun. 28		29.770	70.0	95.0	74.0		58.0		Northeast	Mod.
Mon. 29	☽	29.600	64.0		45.0	45.0	45.0	.314	Northeast	Mod.
Tues. 30		29.842	59.0	85.0	48.5		34.0		N. N. E.	Mod.
Wed. 31		30.090	57.5	50.5	49 0		33.0		Southeast	Light
Mean		29.859	52.09	69.28	48.43	47.05	36.44	.349		

REMARKS—Continued.

March 23.—Wind fresh from the southward and eastward, with rain. At 1*h*. 30*m*. wind shifted suddenly to northwest; heavy rain.

March 28.—At 8*h*., commenced snowing; at midnight, heavy squalls of wind and rain, from northeast.

MARCH, 1841—Continued.

	9 P. M.							Registering thermometers.		Rain or melted snow.
	Thermometers.		Hygrometer.		Wind.					
	Attached.	Dry.	Dew point.	Difference.	Direction.	Force.	Weather.	Maximum.	Minimum.	
hes.	°	°	°	°				°	°	*Inches.*
842	52.0	41.0	35.0	6.0	Calm	Calm	Clear	60.0	29.0	
800	55.0	44.5	31.0	13.5	Calm	Calm	Cirrus	61 0	29.0	
700	55.0	44.0	30.0	0.0	Calm	Calm	Cirrus	63.0	22.0	
080	50.0	40.5	26.0	14.5	Northeast	Mod.	Stratus	35.0	50.0	
242	43.0	25.0	14.0	11.0	Northeast	Mod.	Stratus	27.0	25.0	0.40
174	45.0	34.0	32.0	2.0	Northwest	Mod.	Stratus	39.0	25.0	
432	47.0	38.0	24.0	14.0	Southwest	Light	Cumulus	52.0	34.0	
950	46.0	36.5	26.0	10.5	W. N. W.	Fresh	Cumulus	41.0	32.0	
152	44.0	34.5	29.0	5.5	South	Light	Stratus	43.0	32.0	
820	44.0	34.0	34.0	0.0	Northeast	Light	Rain	42.5	33.0	2.35
152	49.0	32.0	22.0	10.0	Northeast	Light	Clear	43.0	32.5	
450	45.0	30.0	30.0	0.0	Northeast	Fresh	Rain	32.0	29.0	
550	46.0	36.0	36.0	0.0	W. N. W.	Strong	Sn. & r'n	44 0	29.0	2.05
966	45.0	32.0	22.0	10.0	W. N. W.	Fresh	Clear	48.0	26.0	
024	43.0	30.0	21.0	9.0	Southeast	Light	Stratus	39.0	17.0	
120	41.0	25.0	24.0	1.0	Northeast	Fresh	Clear	38.0	25.0	0.10
160	38.0	28.0	24.0	4.0	Northeast	Strong	Stratus	28.0	24.0	
894	42.0	42.0	24.0	18.0	Northwest	Mod.	Clear	36.0	33.0	
050	49.0	33.0	19.0	24.0	West	Light	Clear	60.0	34.0	
988	53.0	57.0	48.0	9.0	Southwest	Mod.	Clear	74.0	35.0	
162	60.0	43.5	33.0	10.5	West	Airs	Clear	60.0	43.0	
026	57.0	47.0	45.0	2.0	East	Light	Stratus	56.0	40.0	
786	59.0	40 5	34.0	6.5	Calm	Calm	Clear	56.0	34.0	0.38
930	57.0	48.0	40.0	8.0	Northwest	Airs	Clear	62.0	35.0	
000	56.0	54.0	42.0	12.0	South	Light	Clear	63.0	35.0	
950	65.0	59.0	50.0	7.0	Calm	Calm	Clear	72.0	43.0	
800	67.0	62 0	50.0	12.0	Southeast	Mod.	Stratus	75.0	48 0	
780	68.0	62.0	62.0	0.0	Northeast	Mod.	Rain	80.0	49.0	0.26
583	62.0	46.0	45.0	1.0	Northeast	Light	Stratus	46.0	44.0	0.12
100	59.0	42.0	37.0	5 0	N. N. E.	Light	Stratus	72.0	42.0	
000	57.0	42.0	31.0	11.0	Southwest	Mod.	Stratus	50.0	35.0	
889	51.58	40.58	32.80	8.53				51.51	35.61	5.66

REMARKS.

APRIL, 1841.

Days of the month.		Phases of the moon.	3 A. M.							
			Barometer.	Thermometers.				Force of vapor.	Wind.	
				Attached.	Dry.	Wet.	Dew point.		Direction.	Force.
			Inches.	°	°	°	°	*Inch.*		
Thu.	1		29.900	45.0	39.0		32.0		S'd & W'd	Moderate
Fri.	2		29.815	54.0	45.0	45.0	38.0	.314	Calm	Calm
Sat.	3		29.972	59.0	36.0	35.0		.211	Calm	Calm
Sun.	4		30.086	57.0	44.0		33.0		Southwest	Airs
Mon.	5	○	29.610	60.0	49.0	49.0	42.0	.361	S'd & W'd	
Tues.	6		29.920	56.0	44.0	44.0	44.0	.304	Variable	Light
Wed.	7		30.110	59.0	37.0	36.0	24.0	.219	East	Airs
Thu.	8		29.682	61.5	48.0		45.0		S'd & W'd	Airs
Fri.	9		29.838	60.0	52.0	47.0	46.0	.281	East	Moderate
Sat.	10		29.533	65.0	57.4	55.0	52.0	.416	Northeast	Light
Sun.	11		29.870	52.0	32.0		32.0		E. S. E.	Fresh
Mon.	12		30.000	50.0	31.0		31.0		N. N. W.	Fresh
Tues.	13	☾	29.840	46.0	34.0		28.0		Northward	Light
Wed.	14		29.694	52.0	46.0		43.0		Westward	Moderate
Thu.	15		30.252	52.0	35.0	31.0	26.0	.146	Calm	Calm
Fri.	16		30.390	50.0	38.0		25.0		South	Fresh
Sat.	17		30.130	55.0	46.0	46.0	46.0	.326	S. S. W.	Light
Sun.	18		29.520	58.0	56.5		56.0		Northward	Light
Mon.	19		30.020	58.0	40.0		30 0		N'd & E'd	Light
Tues.	20		29.960	61.0	45.4		42.0		N'd & E'd	Airs
Wed.	21	●	29.920	54.0	48.0	48.0	48.0	.349	S'd & W'd	Moderate
Thu.	22		30.050	57.0	38.0	36.0	28.0	.208	Northward	Moderate
Fri.	23		29.788	56.0	45.0		45.0		North	Light
Sat.	24		29.980	57.0	41.0		37.0		North	Light
Sun.	25		29.974	59.0	50.5		50.5		Calm	Calm
Mon.	26		29.950	64.0	54.0	50.0	40.0	.328	Northeast	Light
Tues.	27		29.628	63.5	57.0		57.0		South	Light
Wed.	28	☽	29.968	64 0	43.0		37.0		N. N. W.	Light
Thu.	29		29.800	62 0	47.6	47.0	37.0	.330	N'd & E'd	Light
Fri.	30		29.100	58.0	44.0	42.0	34.0	.261	Westward	Light
Mean			29.873	56.8	44.11	43.74	38.92	.290		

REMARKS.

April 2.—At 5*h*. 10*m*. P. M., a violent squall from the westward, with heavy rain, der, and lightning. Ceased raining at 6*h*. ; wind strong from northwest.

April 5.—At 3*h*. 30*m*. A. M., wind shifted suddenly to northwest; fresh.

April 10.—At 4*h*. 20*m*. P. M., hail, snow, and rain, which continued till 1*h*. A. the 11th.

April 11.—At 5*h*. A. M., wind changed to the northward; fresh. At 11*h*. 40*m*. P. M.

April 18.—At 7*h*. 15*m*. A. M., wind shifted to west by north, with fresh gales.

April 21.—At 9*h*. 15*m*., a heavy squall from the north.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1841—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
ches.	°	°	°	°	°	*Inches.*			
.814	54.0	55.0	50.0	50.0	48.0	.373	N'd & E'd	Airs	Pass'g cl'ds.
.790	56.0	73.0	56.0	55.0	47.0	.431	Calm	Calm	Clear.
.100	54.0	67.0	42.5	34.0	17.0	.117	Northwest	Fresh	Clear.
.018	56.0		43.0	42.0	43.0	.272	Calm	Calm	Rain.
.828	56.0	69.0	49.0	48.0	41.0	.338	Northwest	Fresh	Clear.
.082	56.0	72.0	44.0	43.0	37.0	.282	Northwest	Fresh	Clear.
.000	54.0		53.0	47.0	45.0	.269	Southwest	Light	Stratus.
.724	58.0		49.0	49.0	42.0	.361	N'd & E'd	Moderate	Cloudy.
.744	55.0	70.0	54.0	53.0	51.0	.403	Southward	Moderate	Overcast.
.694	55.0	54.0	48.0	47.0	35.0	.326	N. by E.	Strong	Cum. stratus.
.090	50.5	58.0	37.0	34.5	22.0	.190	Northeast	Moderate	Clear.
.943	49.0		36.0	30.0	35 0	.118	Northeast	Fresh	Snow.
878	47.0		42.9	40.0	40.0	.232	N'd & W'd	Light	Cloudy.
.900	51.0		43.0	42.0	35.0	.272	N'd & W'd	Strong	Cloudy.
.416	51 0	62.0	38.0	37.0	8.0	.227	Northwest	Fresh	Clear.
.410	49.5	62.0	49.0		29.0		W. S. W.	Light	Cirri.
.040	55.0		54.0	52.0	54.0	.378	S'd & W'd	Light	Rain.
.672	62.0	66.0	58.0	56.0	52.0	.436	West	Gale	Stratus.
.114	51.0	60.0	44.0		25.0		West	Moderate	Clear.
.970	55.0		49.0	48.0	49.0	.338	South	Moderate	Rain.
.860	58.0		52.5	52.0	51.0	.394	N. N. W.	Moderate	Stratus.
.988	54.0	57.0	48.0	46.0	37.0	.304	North	Moderate	Stratus.
.804	55 5		50.6	50.0	50.6	.366	N. N. E.	Moderate	Rain.
.050	56.0	70.0	52.0	52.0	47.0	.400	Westward	Light	Cir. stratus.
.024	60.5		61.0	58.0	58.0	.465	Northeast	Light	Cumuli.
.940	62.0		55.0	52.0	55.0	.366	Calm	Calm	Rain.
.702	64.0	74.0	57.8	51.0	49.0	.310	West	Fresh	Cumuli.
.050	65.0	76.0	53.0	52.0	32.0	.389	N'd & W'd	Airs	Clear.
676	59.0		45.0	43.0	45.0	.271	E. N. E.	Light	Rain.
.074	57.0		50.0	48.0	50.0	.327	Northwest	Moderate	Rain.
900	52.2	65.31	49.14	46.82	40.96	.320			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1841—Continued.

Days of the month.		Phases of the moon.	3 P. M.									
			Barometer.	Thermometers.					Force of vapor.	Wind.		W
				Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
			Inches.	°	°	°	°	°	Inch.			
Thu.	1		29.810	60.0	70.0	63.0	63.0	52.0	.578	South	Mod.	Clea
Fri.	2		29.550	64.0	73.0	70.0	70.0	47.0	.727	South	Mod.	Cirr
Sat.	3		30.096	60.0	70.0	53.0	48.0	22.0	.292	W. S. W.	Light	Clea
Sun.	4		29.724	59.0		44.0	44.0	44 0	.304	N'd & E'd	Mod.	Rain
Mon.	5	○	29.820	60.0	74.0	60.0	57.0	38.0	.439	N'd & W'd	Mod.	Clea
Tues.	6		30.100	57.0	76.0	55.0	54.0	39.0	.417	West	Airs	Strat
Wed.	7		29.800	62.0	70.0	66.0	55.0	50.0	.319	Calm	Calm	Strat
Thu.	8		29.792	61.0	77.0	58.0	56.0	45.0	.436	N'd & W'd	Mod.	Clea
Fri.	9		29.534	60.0	86.0	74.5	73.0	60.0	.785	South	Mod.	Clea
Sat.	10		29.724	58.0		40.0	40.0	40.0	.264	E. N. E.	Strong	Rai
Sun.	11		30.086	52.0		43 0	40.0	30.0	.230	Northeast	Mod.	Cirr
Mon.	12		29.838	50.0		40.0	32.0	40.0	.109	Northward	Fresh	Rai
Tues.	13	☾	29.842	52.0	72.0	53.0	49.0	44.0	.316	S'd & W'd	Mod.	Clea
Wed.	14		29.988	52.0	60.0	51.0	51.0	32.0	.386	N'd & W'd	Fresh	Clea
Thu.	15		30.350	54.0	74.0	48.0	47.0	20.0	.326	North	Mod.	Clea
Fri.	16		30.305	55.0	82.0	58.5	52.0	33.0	.326	South	Mod.	Cirr
Sat.	17		29.876	58.0	74.0	65.0	62.0	60.0	.525	South	Mod.	Cum
Sun.	18		29.716	62.0	75.0	58.0	54.0	48.0	.373	Westward	Gale	Clea
Mon.	19		29.984	57.0	70.0	56.0	50.0	28.0	.306	N'd & W'd	Mod.	Clea
Tues.	20		29.900	59.0		53.0	52.0	53.0	.388	Southward	Mod.	Light
Wed.	21	●	29.944	59.0		52.0	50.0	51.5	.351			
Thu.	22		29.962	56.0		54.0	50.0	50.0	.328	E. N. E.	Mod.	Strat
Fri.	23		29.852	59.0		57.0	54.0	49.0	.394	Eastward	Light	Cum
Sat.	24		29.992	67.0	88.0	63.0	60.0	45.0	.489	Northward	Mod.	Clea
Sun.	25		29.964	64.5	86.0	64.5	62.0	60.0	.531	Northeast	Mod.	Clea
Mon.	26		29.746	65.0	80.0	70.0	66.0	65.0	.594	Northeast	Mod.	Strat
Tues.	27		29.724	64.0	82.0	60.0	57.0	35.0	.439	Westward	Fresh	Clea
Wed.	28	☽	29.962	64.0		63.0	62.0	40.0	.548	Northward	Airs	Strat
Thu.	29		29.242	59.5		47.0	47.0	47.0	.337	N. N. E.	Airs	Strato
Fri.	30		29.134	58.0		52.0	50.0	52.0	.351	West	Fresh	Cum
Mean			29.845	58.8	75.74	56.38	50.29	43.98	.407			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1841—Continued.

9 P. M.									Registering thermom'rs.		Rain or melted snow.
	Thermometers.					Wind.					
Barometer.	Attached.	Dry.	Wet.	Dew point.	Force of vapor.	Direction.	Force.	Weather.	Maximum.	Minimum.	
Inches.	°	°	°	°	°				°	°	*Inches.*
29.826	59.0	52.0	51.0	48.0	.375	S'd & W'd	Airs	Clear	64.0	39.0	
29.800	58.0	42.0	41.0		.263	Northwest	Fresh	Clear	73.0	42.0	
30.134	59.5	46.0		35.0		Southwest	Airs	Cirri	56.0	36.0	
29.568	60.0	51.0		50.0		Calm	Calm	Cir. strat.	49.0	42.0	0.680
29.890	60.0	48.0	48.0	44.0	.349	N'd & W'd	Airs	Clear	60.0	44.0	0.270
30.150	60.0	43.0	42.0	39.0	.272	Southward	Airs	Clear	56.0	40.0	
29.688	63.0	53.5		50.0		East	Airs	Clear	67.0	37.0	
29.804	60.0	48.0	47.0	45.0	.326	N'd & W'd	Light	Clear	58.6	44.0	
29.532	64.0	59.2	59.0	56.0	.504	Calm	Calm	Clear	74.0	42.0	
29.850	55.0	33.0	33.0	33.0	.207	Northeast	Fresh	R'n & sn.	59.6	32.5	0.430
30.100	51.0	39.0	38.0	30.0	.235	Southeast	Moderate	Stratus	45.0	32.5	0.490
29.880	48.0	34.0	32.0	30.0	.177	N. N. W.	Light	Stratus	42.0	32.0	0.170
29.754	52.0	46.0		46.0		Southward	Light	Rain	53.9	32.0	
30 184	53.0	42.0	39.0	27.0	.231	Westward	Moderate	Clear	61.0	42.0	0.096
30.364	53.0	40.0		22.0		S'd & W'd	Light	Clear	48.0	33.0	0.056
30.264	54.0	48.0	47.0	48.0	.326	Southward	Airs	Rain	58.0	38.0	0.013
29.800	59.0	57.0	54.0	50.0	.394	South	Light	Clear	65.0	46.0	0.446
29.890	60.0	49.0		40.0		N. N. W.	Moderate	Clear	60.5	47.0	
29.972	59.0	46.0	44.0	42.0	.281	Eastward	Light	Clear	60.0	34.0	
29.850	59.0	51.0	51.0	51.0	.386	S'd & W'd	Airs	Rain	54.0	44.0	0.264
30.050	58.0	43.0	42.0	30.0	.272	Northwest	Moderate	Clear	54.5	46.0	
29.942	58.0	44.5	43.0	44.5	.276	E N. E.	Moderate	Rain	55.0	37.0	0.345
29.930	60.0	50.0		47.0		N'd & E'd	Light	Cumuli	57.0	45.0	
29.974	61.0	54.0	52.0	44.0	.378	S'd & E'd	Light	Clear	65.0	41.0	
30.000	64.0	57.0	56.0	40.0	.447	Calm	Calm	Clear	66.0	51.0	0.062
29.662	65.0	58.6	56.0	56.0	.429	South	Light	Stratus	70.0	49.0	0.370
29.880	64.0	50.0	46.0	45.0	.281	W. N. W.	Fresh	Clear	60.0	48.0	
29.924	63.0	48.0	46.0	32.0	.304	Calm	Calm	Clear	63.0	40.0	
29.146	59.0	46.0	40.0	32.0	.198	Westward	Airs	Cumuli	49.0	44.0	0.975
29.348	58.0	46.5	46.5	46.5	.331	Northwest	Moderate	Clear	53.0	44.0	0.050
29.872	57.8	47.51	45.80	41.48	.315				58.20	40.47	4.717

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1841.

Days of the month.		Phases of the moon.	3 A. M.								
			Barometer.	Thermometers.				Force of vapor.	Wind.		Weather.
				Attached.	Dry.	Wet.	Dew point.		Direction.	Force.	
			Inches.	°	°	°	°	Inches.			
Sat.	1		29.400	56.5	46.0		38.0		Northwest	Mod.	Clear
Sun.	2		29.722	60.0	43.0		40.0		Calm	Calm	Clear
Mon.	3		29.868	60.0	41.0	38.0	30.0	.212	Northwest	Mod.	Clear
Tues.	4		29.900	45.0	34.0	33.0	30.0	.196	West	Light	Cloudy
Wed.	5	○	29.860	52.0	40.0	37.0	32.0	.204	Northward	Airs	Clear
Thu.	6		29.794	53.0	48.0	44.0	45.0	.259	Southwest	Light	Cir. st
Fri.	7		30.040	55.0	43.6	41.0	37.0	.244	South	Light	Clear
Sat.	8		29.740	56.0	45.5	44.0	45.5	.287	N'd & E'd	Strong	Rain
Sun	9		30.150	57.0	41.0	39.0	30.0	.232	Calm	Calm	Clear
Mon.	10		29.800	58.0	52.0	50.0	51.0	.351	Southeast	Light	Stratus
Tues.	11		29.430	63.0	55.8	53.0	43.0	.383	Northwest	Light	Stratus
Wed.	12		29.520	63.0	50.4	48.0	45.0	.323	N'd & W'd	Light	Cumuli
Thu.	13	☾	29.744	66.0	48.0	45.0	35.0	.280	West	Light	Clear
Fri.	14		29.768	54.0	44.0		38.0		Northwest	Light	Clear
Sat.	15		29.882	58.0	45.0	43.0	35.0	.271	Calm	Calm	Clear
Sun.	16		30.020	60.0	45.0	42.0		.249	Calm	Calm	Clear
Mon.	17		29.910	62.0	49.0	47.0	45.0	.315	Calm	Calm	Clear
Tues.	18		29.824	69.0	62.0	57.0	44.0	.417	Eastward	Fresh	Cir. st
Wed.	19		29.788	64.0	52.0		42.0		West	Light	Clear
Thu.	20	●	29.960	62.0	45.0	40.0	30.0	.208	Northeast	Light	Clear
Fri.	21		30.028	63.0	51.0	50.0	42 0	.362	Calm	Calm	Clear
Sat.	22		29.920	70.0	60.0	59.0	59.0	.495	Northwest	Light	Clear
Sun.	23		30.034	73.0	69.0	61.0	60.0	.541	Southward	Light	Cir st
Mon.	24		30.068	73.0	64.0		60.0		S. S. W.	Light	Clear
Tues.	25		30.019	76.0	64.0	60.0	60.0	.478	Calm	Calm	Clear
Wed.	26		29.894	74.0	68.0	66.0	63.0	.616	Southwest	Mod.	Stratus
Thu.	27	☽	29.926	72.0	63.0	61.0	61.0	.519	Calm	Calm	Stratus
Fri.	28		30.000	72.0	64.0	61.0	60.0	.507	Calm	Calm	Stratus
Sat.	29		29.970	71.5	62.0		54 0		Southeast	Airs	Stratus
Sun.	30		29.844	72.0	62.6	60.0		.494	Northeast	Mod.	Stratus
Mon.	31		30.022	68.0	55.6	51.0	50.0	.335	Calm	Calm	Stratus
Mean			29.864	63.2	52.05	49.56	44.98	.351			

REMARKS.

May 2.—At 0*h*. 30*m*. P. M., the wind changed suddenly from southwest to northw. It was most violent at 2*h*. P. M.; moderated at sunset.

May 8.—A halo, visible till 1*h*. 40*m*. P. M.

May 25.—A violent squall of wind and rain from southwest.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1841—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
Inches.	°	°	°	°	°	°			
29.548	57.0		50.8	49.0	32.0	.341	West	Strong	Cumuli.
29.584	57.0		53.0	52.0	26.0	.389	East	Moderate	Cloudy.
29.950	48.0	60.0	41.0	39.0	25.0	.233	Northwest	Fresh	Clear.
29.884	45.0	63.0	41.4	38.0	32.0	.208	Northwest	Moderate	Clear.
29.808	56.0		50.5	50.0	38.0	.367	N. N. E.	Moderate	Cloudy.
29.840	54.0		53.5	52.0	42.0	.383	Northwest	Moderate	Cloudy.
30.068	56.0	69.0	55.0	51.0	39.0	.341	Eastward	Light	Cirri.
29.888	55.5		49.5	48.0	47.0	.332	N. N. E.	Moderate	Cum. strat.
30.148	59.0	80.0	57.0	54.0	47.0	.394	Calm	Calm	Clear.
29.620	60.0		58.0	57.0	58.0	.462	Northeast	Light	Cum. strat.
29.488	63.0	76.0	59.0	51.0	42.0	.298	Northwest	Strong	Cum. strat.
29.564	60.0	70.0	58.4	51.0	46.0	.305	W. N. W.	Fresh	Cumuli.
29.756	59.0	68.0	57.0	54.0	42.0	.408	Northwest	Light	Stratus.
29.816	54.0		53.0	51.0	47.0	.364	Northwest	Strong	Cumuli.
30.000	60.0	78.0	57.0	52.0	35.0	.344	Northward	Airs	Clear.
30.050	58.0	78.0	59.0	53.0	42.0	.347	Westward	Light	Clear.
29.852	64.0		70.5	59.0	55.0	.377	Northwest	Light	Cum. strat.
29.868	63.0	80.0	61.0	55.0	55.0	.375	Northwest	Moderate	Clear.
29.846	64.0	85.0	62.0	54.0		.338	Northwest	Moderate	Clear.
30.018	63.0	81.0	61.4	59.0	59.0	.479	N'd & W'd	Light	Clear.
30.032	64.0	83.0	66.0	63.0	44.0	.544	Westward	Airs	Clear.
30.042	70.0	90.0	75.0	70.0	68.0	.671	Southwest	Light	Clear.
30.090	73.0		73.0	70.0	69.0	.693	Southwest	Moderate	Stratus.
30.068	72.0	90.0	74.6	66.0	60.0	.542	Northeast	Moderate	Haze.
30.140	74.0	83.0	76.0	72.0		.730	Northwest	Airs	Clear.
29.982	70.0		64.0	61.0	64.0	.507	Calm	Calm	Rain.
29.980	70.0		67.5		67.5		Southeast	Light	Rain.
30.034	74.0	78.0	75.0	66.0	68.0	.537	Northeast	Light	Cumuli.
30.000	71.0	75.0	71.0	70.0	63.0	.716	Southeast	Light	Stratus.
29.960	72.0		67.2	66.0	67.2	.625	Northeast	Moderate	Cloudy.
30.036	66.0	80.0	65.0	61.0	48.0	.496	Northward	Light	Cirri.
29.902	62.3	77.21	60.72	56.47	49.23	.438			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1841—Continued.

Days of the month.	Phases of the moon.	3 P. M.									
			Thermometers.						Wind.		
		Barometer.	Attached.	Sun.	Dry.	Wet.	Dew point.	Force of vapor.	Direction.	Force.	W
		Inches.	°	°	°	°	°	*Inch.*			
Sat. 1		29.558	60.5	82.0	61.0	56.0	32.0	.403	W. N. W.	Strong	Clear
Sun. 2		29.566	59.0	78.0	54.8	49.0	30.0	.297	Northwest	Gale	Clear
Mon. 3		29.850	52.0	76.0	53.0	52.0	30.0	.389	W. N. W.	Fresh	Clear
Tues. 4		29.800	51.5	77.0	54.0	47.0	25.0	.259	Northwest	Mod.	Clear
Wed. 5	○	29.724	55.0		47.4	46.0	47.4	.310	Southeast	Light	Rain
Thu. 6		29.834	59.5	84.0	63.4	53.0	42.0	.288	Northwest	Mod.	Clear
Fri. 7		29.950	62.0		60.0	50.0	42.0	.261	Eastward	Mod.	Strat
Sat. 8		29.976	59.0	65.0	59.0	56.0	53.0	.424	North	Light	Cum
Sun. 9		30.046	62.0	70.0	67.0	62.0	52.0	.503	N. N. W.	Light	Cum
Mon. 10		29.424	64 0	79.0	68.8	66.0	52.0	.607	Northwest	Mod.	Cum
Tues. 11		29.476	65.0	70.0	66.0	64.0	45.0	.575	W. N. W.	Mod.	Clear
Wed 12		29.586	61.5	68.0	62.0	52.0	45.0	.290	W. N. W.	Fresh	Cum
Thu. 13	☾	29 672	63.5		57.0	56.0	57.0	.447	Northwest	Light	Rain
Fri. 14		29.820	59.5		62.8	51.0	37.0	.254	Northwest	Strong	Cum
Sat. 15		29 954	61.5	89.0	64.0	56.0	42.0	.368	West	Airs	Clear
Sun. 16		30.020	62.0	84.0	68.0	65.0	45.0	.583	Westward	Mod.	Clear
Mon. 17		29 684	74.0	95.0	81.5	64.0	50.0	.401	West	Fresh	Clear
Tues. 18		29.768	67.0	92.0	69.0	58.0	59.0	.368	W. N. W.	Mod.	Clear
Wed. 19		29.836	67.0	87.0	68.0	62.0	61.0	.493	Northwest	Light	Clear
Thu. 20	●	29.928	68.0	94.0	71.4	64.0	59.0	.514	Northwest	Light	Clear
Fri. 21		30.004	73.5		68.2	65.0	62.0	.581	Northwest	Light	Clear
Sat. 22		30.010	80.0		81.0	76.0	68.0	.827	W. S. W.	Light	Cum
Sun. 23		30.060	76.0	100.0	79.0	70.0	70.0	.628	W. S. W.	Mod.	Clear
Mon. 24		30.008	81.0	104 0	85.0	78.0	76.0	.863	S. S. W.	Mod.	Clear
Tues. 25		29.964	80.0		81.2	79.0		.946	Southwest	Mod.	Cum
Wed. 26		29.960	71.0	76.0	71.0	69.0	65.0	.682	W. S. W.	Light	Cum
Thu. 27	☽	29.980	72.0		73.0	69.0	69.0	.660	E. by N.	Light	Cum
Fri. 28		30.016	74.0		73.0	71.0	70.0	.729	E. N. E.	Light	Cum
Sat. 29		29.918	74.0	90.0	80.0	74.0	69.0	.761	Southward	Light	Cum
Sun. 30		30.000	71.0		64.0	62.0	64.0	.537	Northeast	Mod.	Cum
Mon. 31		29.950	68.0	100.0	76.0	71.0	54.0	.696	Northward	Light	Clear
Mean		29.849	66.22	83.81	67.47	61.71	52.41	.515			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1841—Continued.

	9 P. M.								Registering thermom'rs.		Rain or melted snow.
	Thermometers.				Force of vapor.	Wind.		Weather.	Maximum.	Minimum.	
	Attached.	Dry.	Wet.	Dew point.		Direction.	Force.				
ies.	°	°	°	°	Inch.				°	°	Inch.
28	60.0	52.0		48.0		Calm	Calm	Clear	61.8	46.8	
36	54.0	43.2	40.5	39 0	.239	Northwest	Strong	Clear	57.0	43.0	
90	51.0	40.5	39.0	32.0	.238	Northwest	Mod.	Clear	53.0	36.0	
00	53.0	46.0	43.0	30.0	.259	Calm	Calm	Clear	57.0	34.0	0.625
80	54.0	47.0	47.0	47.0	.337	Southeast	Airs	Rain	47,8	37.0	0.190
70	59.5	53.5	47.0	45.0	.264	Northeast	Light	Clear	64.8	47.0	
36	58.0	52.0	47.0	52.0	.281	Northeast	Strong	Rain	61 0	42.0	
22	60.0	53.0	50.0	40.0	.339	N'd & W'd	Airs	Cum. strat.	58.0	45.5	
80	61 0	53.4	52.0	53.4	.384	S. S. W.	Light	Rain	67.4	39.0	0.670
36	65.0	63.0	61.0	50.0	.519	Westward	Mod.	Clear	68.2	51.4	0.250
34	63.4	56.4	54.0	45.0	.402	N'd & W'd	Light	Clear	66.0	55.6	
26	63.0	54.0	52.0	41.0	.378	Westward	Light	Clear	61.0	50.2	
88	59.0	46.8	46.0	45 0	.295	Northwest	Light	Clear	63.6	47.0	0.055
66	61.0	49.0	45.0	42.0*	.269	Calm	Calm	Clear	61.2	43.0	
64	62.0	52.0	48 0		.304	Calm	Calm	Clear	65.5	43.0	
21	63.0	54.4	50.0	50.0	.323	Calm	Calm	Clear	70.0	46.0	
50	74.0	69.0	64.0	51.0	.541	Calm	Calm	Clear	82.0	48.0	
00	66.5	59.5	55.0	47.0	.392	Calm	Calm	Stratus	69.0	51.0	
20	65.0	55.0	50.0	45.0	.317	Eastward	Light	Clear	68.0	52.0	
14	66.0	58.0	56.0	56.0	.436	Calm	Calm	Clear	75.4	45.0	
00	72.4	65.0	62.0	60.0	.525	Calm	Calm	Clear	68.2	50.0	
32	74.0	69.0	62 0	52.0	.481	Variable	Airs	Cumuli	83.0	57.0	
92	76.0	68.5	68.0	64.0	.675	West	Airs	Clear	80.0	68.0	0.260
60	77.0	71.0	66.0	65.0	.582	Southwest	Light	Clear	85.0	64.0	0.117
58	75.0	68 0	67.0	64.0	.648	Southwest	Squally	Cumuli	82.2	64.0	0.243
64	72.0	64.0	61.0	60.0	.507	Calm	Calm	Stratus	71.0	63.4	0.103
00	71.0	64.0	60.0	58.0	.478	Southeast	Light	Cum. strat.	73.5	62.0	0.047
10	72.5	66.0	64.0	65.0	.575	Northeast	Airs	Clear	78.0	64.0	0.172
00	74.0	68 4	64.0		.548	Calm	Calm	Clear	79.6	62.5	
30	70.0	61.8	60 0	60.0	.503	Calm	Calm	Stratus	68.0	61.0	
68	68.0	61.0	58.0	55.0	.455	Calm	Calm	Clear	76.0	54.0	
92	65.2	57.56	54.60	50.43	.423				74.90	50.82	2.732

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1841.

Days of the month.	Phases of the moon.	3 A. M. Barometer.	Thermometers. Attached.	Dry.	Wet.	Dew point.	Force of vapor.	Wind. Direction.	Force.
		Inches.	°	°	°	°	°		
Tues. 1		29.830	67.0	54.0	51.0		.352	Calm	Calm
Wed. 2		29.764	72.0	63.0	59.0	50.0	.461	Calm	Calm
Thu. 3	○	29.792	74.5	68.0	64.0	62.0	.552	E. N. E.	Light
Fri. 4		29.941	71.0	65.0	52.0	52.0	.254	Calm	Calm
Sat. 5		29.838	73.0	67.0	65.0	64.0	.595	Calm	Calm
Sun. 6		29.824	79.0	74.0	66.0	64.0	.550	Northwest	Light
Mon. 7		29.968	76.0	70.0	67.0	66.0	.625	Westward	Airs
Tues. 8		29.856	78.0	70.0	70.0	68.0	.727	Southwest	Light
Wed. 9		29.862	80.0	71.0	68.0	68.0	.647	Northeast	Light
Thu. 10		29.916	80.0	70.0	66.0	68.0	.593	Calm	Calm
Fri. 11		29.782	78.0	63.0	60.0	60.0	.489	Calm	Calm
Sat 12	☾	29.638	82.0	75.0	70.0	63.0	.672	Calm	Calm
Sun. 13		29.678	78.0	63.0	62.0	63.0	.548	N'd & E'd	Light
Mon. 14		29.674	76.0	67.0	65.0	66.0	.595	N'd & E'd	Light
Tues. 15		29.636	76.0	66.0	64.0		.575	Northwest	Mod.
Wed. 16		29.836	70.0	58.0	55.0	53.0	.408	West	Airs
Thu. 17		29.982	71.0	58.0	54.0	50.0	.383	East	Airs
Fri. 18		29.944	73.0	67.0	56.0	59.0	.335	Calm	Calm
Sat 19	●	29.850	74.0	62.0	60.0	62.0	.501	Southwest	Light
Sun. 20		29.874	73 0	65.0	63.0	60.0	.656	East	Airs
Mon. 21		29.934	75.0	68.0	64.0	63.0	.552	East	Airs
Tues. 22		30.020	72.0	66.0	66.0	64.0	.638	Calm	Calm
Wed. 23		29.820	76.0	73.0	73.0	70.0	.801	N'd & E'd	Airs
Thu. 24		29.800	76.0	67.0	66.0	54.0	.627	Southward	Airs
Fri. 25	☽	29.846	81.0	73.0	72.0	70.0	.764	Northeast	Airs
Sat. 26		29.794	78.0	72.0		68.0		Southwest	Light
Sun. 27		29.810	77.0	73.0	72.0	68.0	.764	Southwest	Light
Mon. 28		29.884	75.0	65.0	65.0	62.0	.617	Calm	Calm
Tues. 29		30.020	77.0	66.0	63.0	50.0	.544	Calm	Calm
Wed. 30		29.968	80.0	72.0	68.0	68.0	.636	Southwest	Airs
Mean		29.879	75.6	67.03	63.65	61.96	.564		

REMARKS.

June 1.—At 9*h*. A. M., a squall of wind and rain from the westward, with lightning.

June 12.—At 11*h*. 30*m*. A. M., the wind changed suddenly from east to west and was immediately followed by rain.

June 23.—At 7*h*. 30*m*. P. M., a squall from northwest, with rain, thunder, and

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1841—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
hes.	°	° '	°	°	°	Inches.			
800	67.0	86.0	71.0	65.0	54.0	.551	Southwest	Light	Clear.
792	73.0	82.0	76.0	72.0	68.0	.730	Northwest	Light	Cirri.
930	74.0	91.0	72.0	63.0	64.0	.477	Northeast	Mod.	Haze.
970	73.0	96.0	73.4	66.0	68.0	.555	Northwest	Light	Clear.
880	76.0	100.0	82.0	75.0	62.0	.777	Southward	Light	Clear.
964	78.0	92.0	76.5	70.0	66.0	.655	Northeast	Mod.	Clear.
978	76.0	80 0	77.0	74.0	74.0	.786	Calm	Calm	Cum. strat.
948	82.0	102.0	84.6	79.0	70.0	.908	N. N. W.	Light	Clear.
924	82 0	102.0	84.4	78.0	70.0	.870	Northwest	Light	Clear.
976	80.0	102.0	79.0	70.0	62.0	.626	East	Light	Clear.
806	80.3	100.0	82.2	71.0	66.0	.628	W. N. W.	Light	Cirri.
716	84.0	100.0	83 0	79.0	60.0	.926	N. N. E.	Mod.	Cirri.
696	76.0	86.0	76.4	74.0	70.0	.801	Calm	Calm	Stratus.
700	77.0	93 0	81.4	70 0	70.0	.601	Northeast	Light	Stratus.
732	75.0	80.0	71.0	68.0	70.0	.647	Northeast	Fresh	Cumuli.
968	71.0	92.0	69.0	65 0	50.0	.573	N. N. E.	Light	Cirri.
030	73.0	90.0	70.0	70.0	52.0	.727	Southwest	Light	Cumuli.
908	73.0		71.0	68.0	71.0	.647	Southwest	Light	Rain.
872	72.0		66.0	64.0	65.0	.575	West	Light	Cum. strat.
928	72.0	88.0	74.0	74.0	62.0	.827	N'd & E'd	Light	Cumuli.
032	75.0		74.4	72.0	68.0	.748	East	Light	Cum. strat.
000	73.0		72.0		68.0		Southward	Airs	Cum. strat.
832	77.0		79.5	77.0	74.0	.882	Southwest	Light	Cum. strat.
812	77.0	94.0	78.0	75.0	74.0	.820	Calm	Calm	Cumuli.
892	77.0		76.0	75.0	73.0	.843	S'd & W'd	Airs	Cum. strat.
814	77.0		77.0	75.0	68.0	.832	S'd & W'd	Airs	Cum. strat.
868	77.0	86.0	78.0	75.0	67.0	.821	S'd & W'd	Mod.	Cum. strat.
970	75.0	95 0	75.5	70.0	66.0	.665	Northwest	Light	Clear.
046	80.0	102.0	82.0	76.0	72.0	.815	W. S. W.	Mod.	Clear.
000	80.0	104 0	85.0	80.0	74.0	.945	Southwest	Light	Clear.
893	76.1	93.09	76.58	72 07	66.60	.733			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1841—Continued.

Days of the month.	Phases of the moon.	3 P. M.										
		Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
			Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
		Inches.	°	°	°	°	°	In's.			
Tues. 1		29.746	75.0	100.0	82.0	74.0	66.0	.739	Southwest	Mod.	[illegible]
Wed. 2		29.740	78.0	106.0	95.0	72.0	68 0	.632	N'd & W'd	Mod.	[illegible]
Thu. 3	○	29.890	76.0	104.0	79.0	68.0	60.0	.560	Northeast	Light	[illegible]
Fri. 4		29.890	80.0	102.0	84.0	68.0		.505	Northwest	Light	[illegible]
Sat. 5		29.822	86.0	111.0	90.0	80.0	52.0	.891	Westward	Light	[illegible]
Sun. 6		29.948	82.0	102.0	85.0	75.0	71.0	.744	E. N. E.	Mod.	[illegible]
Mon. 7		29.920	83.0	104.0	86.0	80.0	78.0	.935	Westward	Mod.	[illegible]
Tues. 8		29.852	88.0	116.0	95.0	80 0	74.0	.836	Southeast	Light	[illegible]
Wed. 9		29.850	90.0	104.0	92.0	80.0	83.0	.869	Northwest	Light	[illegible]
Thu. 10		29.858	84.0	108.0	87.0	75.0	59.0	.722	West.	Light	[illegible]
Fri. 11		29.807	90.0	108.0	93.0	80.0	80.0	.858	W. S. W.	Light	[illegible]
Sat. 12	☾	29.730	85.0		81.6	71.0	81.6	.634	East	Light	[illegible]
Sun. 13		29.650	84.0	110.0	85.0	78.0		.863	Northwest	Light	[illegible]
Mon. 14		29.642	78.0		66.0		66.0		Northeast	Mod.	[illegible]
Tues. 15		29.744	75.0	80 0	75.0	70.0	72.0	.672	N'd & W'd	Mod.	[illegible]
Wed. 16		29.918	74.0	100.0	81.0	70.0	58.0	.606	N'd & W'd	Mod.	[illegible]
Thu. 17		30.000	74.0		79.0	72.0	59.0	.698	S'd & E'd	Light	[illegible]
Fri. 18		29.842	76.0		82.0	78.0	70.0	.896	Southwest	Airs	[illegible]
Sat. 19	●	29.850	75.0		78.0	74.0	75.0	.783	N'd & E'd	Light	[illegible]
Sun. 20		29.900	77.0	88.0	84.0	80.0	70.0	.957	E. N. E.	Light	[illegible]
Mon. 21		30.036	75.0		79 4	70.0	69.0	.623	East	Light	[illegible]
Tues. 22		29.950	76.0	90.0	83.0	77.0	64.0	.844	Southwest	Light	[illegible]
Wed 23		29.772	81.0	104.0	89.0	81.0	74.0	.945	S. S. W.	Airs	[illegible]
Thu. 24		29,822	84.0	102.0	87.0	80.0	78.0	.924	S. S. W.	Light	[illegible]
Fri. 25	☽	29.830	79.0		78.0	77.0	72.0	.899	S'd & E'd	Light	[illegible]
Sat. 26		29.800	80.0		80.0		71.0		S. S. W.	Mod.	[illegible]
Sun. 27		29.820	79.0	90.0	84.0	82.0	60.0	.935	Southwest	Fresh	[illegible]
Mon. 28		29.966	82.0	99.0	84.0	77.0	68.0	.833	Southwest	Light	[illegible]
Tues. 29		29.994	75.0	100.0	89.0	82.0	68.0	.956	Southwest	Mod.	[illegible]
Wed. 30		29.892	90.0	99.0	91.0		80.0		Southwest	Light	[illegible]
Mean		29.849	80.4	101.23	83.90	75.92	69.52	.761			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1841—Continued.

9 P. M.									Registering thermometers.		Rain or melted snow.
	Thermometers.					Wind.					
Barometer.	Attached.	Dry.	Wet.	Dew point	Force of vapor.	Direction.	Force.	Weather.	Maximum.	Minimum.	
ches.	°	°	°	°	In's.				°	°	Inch.
.812	74.0	69.0	64.0	69.0	.542	Westward	Light	Rain	84.0	54.0	0.210
778	77.0	72.0	70.0	67.0	.705	Northwest	Airs	Clear	87.0	54.0	
878	78.0	65.0	60.0	60.0	.468	Calm	Calm	Clear	79.0	61.0	
874	78.0	70.0	67.0	62.0	.625	Calm	Calm	Clear	88.0	55.0	
832	83.0	77.2	71.0	70.0	.683	Northwest	Airs	Clear	92.0	65.0	
000	80.0	74.0	72.0	62 0	.753	Southward	Airs	Clear	88.0	68.0	
918	82.0	77.5	74.0	71.0	.788	South	Airs	Clear	88.0	68.0	
924	83.0	78.0	74.0	75.0	.783	Calm	Calm	Cumuli	95.0	70.0	
906	86.0	81.0	76.0	79.0	.827	Calm	Calm	Cumuli	93.0	70.0	
880	83.0	73.4	70.0	70.0	.690	Calm	Calm	Clear	87.0	67.0	
686	85.0	80.0	73.0	64.0	.724	West	Airs	Clear	93.0	62.0	
738	83.0	73.0	70.0	68.0	.693	East	Airs	Stratus	87.0	70.0	
700	79.0	72.0	70 0	69.0	.705	Northeast	Mod.	Cumulus	85.0	63.0	
628	75.0	69.0	68.0	68.0	.670	Calm	Calm	Cloudy.	83.0	67.0	.300
814	74.0	65.0	62.0	60.0	.525	West	Airs	Clear	78.0	66.0	
994	74.0	65.0	61.0	60.0	.507	Calm	Calm	Clear	81.0	58.0	
966	74.0	71.0	66.0	60.0	.583	Northeast	Light	Stratus	79.0	58 0	
844	76.0	70.0	69.0	70.0	.693	Northeast	Light	Rain	83.0	67.0	.210
884	73.0	69.0	64.0	62.0	.641	West	Light	Clear	78.0	61.0	
920	76.0	71.0	68.0	65.0	.647	Calm	Calm	Clear	84.0	63.0	
054	73.5	69.0	68.0	66.0	.670	S. S. E.	Light	Stratus	82.0	66.0	.070
880	76.0	72.0	70.0	68.0	.705	N'd & E'd	Light	Stratus	83.0	66.0	.670
814	79.5	69.0	69.0	68.0	.704	Northwest	Light	Stratus	93.0	69.0	.280
846	82.0	80.0	78.0	75.0	.918	Calm	Calm	Stratus	88.0	67.0	.117
812	79.0	74.5	74.0	74.5	.811	Calm	Calm	Rain	83.0	72.0	.052
820	78.0	73.0	73.0	72.0	.801	Southwest	Airs	Clear	84.0	71.0	
864	75.0	68.0	68.0	65.0	.681	Northwest	Light	Clear	84.0	67.0	.180
000	80.0	72.0	72.0	64.0	.775	Calm	Calm	Clear	86.5	64.0	
888	84.0	79.0	76.0	72.0	.849	Calm	Calm	Clear	89.0	65.0	
860	87.0	81.0	78.0	72.0	.907	Calm	Calm	Clear	92.0	70.0	
860	78.9	72.64	69.83	67.58	.682				85.88	66.43	2.089

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1841.

Days of the month.		Phases of the moon.	3 A. M.								
			Barometer.	Thermometers.				Force of vapor.	Wind.		W
				Attached.	Dry.	Wet.	Dew point.		Direction.	Force.	
			Inches.	°	°	°	°	In's.			
Thu.	1		29.824	82.0	74.0	72.0	73.5	.753	Calm	Calm	Cle
Fri.	2		29.822	80.0	71.0	69.0	69.0	.682	Calm	Calm	Cu
Sat.	3	○	29.918	73 0	67.0	66.0		.627	Northeast	Moderate	C
Sun.	4		29.960	73.0	61.0	58.0	53.0	.455	Northeast	Moderate	Cu
Mon.	5		29.850	73.0	67.0	67.0		.659	Northwest	Airs	Cr
Tues.	6		29.730	79.0	70.0	69.0		.693	Northwest	Airs	Str
Wed.	7		29.760	80.0	79.0	76.0	74.0	.849	Variable	Airs	Str
Thu.	8		29.850	73.0	62.0	61.0	58.0	.530	West	Moderate	Cle
Fri.	9		30.010	71.0	62.0	59.0	55.0	.462	Calm	Calm	Cle
Sat.	10		29.846	74.0	69.0	67.0	60.0	.637	Southeast	Moderate	Str
Sun.	11	☾	29.950	73.0	64.0	64.0	56.0	.597	Eastward	Moderate	Cle
Mon.	12		29.786	72.5	63.0	59.0	60.0	.462	N'd & E'd	Light	Cu
Tues.	13		29.878	74.0	69.0	67.0	62.0	.637	Northwest	Airs	Cu
Wed.	14		29.814	80.0	76.0	73.0	72.0	.768	Southwest	Moderate	Cu
Thu.	15		29.800	84.0	72.0	71.0	70.0	.740	Calm	Calm	Cle
Fri.	16		29.816	78.0	69.0	66.0	68.0	.605	Westward	Light	Cu
Sat.	17		29.974	77.0	63.0	61.0	57.0	.519	Northwest	Airs	Cle
Sun.	18	●	29.980	71.0	60.0	57.0	56.0	.439	Calm	Calm	Cle
Mon.	19		30.000	75.0	64.0	60.0	57.0	.478	N'd & W'd	Airs	Cle
Tues.	20		30.000	74.0	66.0	63.0	52.0	.544	Calm	Calm	Cle
Wed.	21		30.240	75.5	62.0	60.0	61.5	.501	Eastward	Light	Cle
Thu.	22		30.148	78.0	69.0	67.0	62.0	.637	Calm	Calm	Cle
Fri.	23		30.000	78 0	72.0	69.0	66.0	.670	Calm	Calm	Cle
Sat.	24		29 960	83.0	76.0	71.0	68.0	.696	Calm	Calm	Cle
Sun.	25	☽	29.910	81.0	77.0	76.0	68.0	.871	Southwest	Moderate	Cle
Mon.	26		29.888	83.0	72.0	72.0	71.0	.775	Westward	Moderate	Cir
Tues.	27		30.028	75.0	58 5	56.0	52.0	.430	North	Light	Cle
Wed.	28		29.880	76.0	70.0	67.0	65.0	.626	Calm	Calm	Cu
Thu.	29		29.962	71.0	65.0	63.0	51.0	.556	N'd & E'd	Moderate	Cle
Fri.	30		29.843	76.0	68.0	67.0	66.0	.648	S'd & E'd	Light	Str
Sat.	31		29.620	74.5	66.0	66.0	66.0	.638	Northeast	Airs	L
Means			29.906	76.4	67.85	65.78	62.47	.619			

REMARKS.

July 6.—At 9 P. M., a heavy squall of wind from W. N. W., accompanied with th and lightning.

July 7.—At 4*h*. 30*m*. P. M., the wind changed suddenly from southwest to northw blew with violence. It was immediately followed by a heavy rain.

July 14.—At 9*h*. P. M., a storm of wind and rain from the southward and westward.

July 19.—A faint aurora borealis visible from 9*h*. 30*m*. to 10*h*. 10*m*. P. M. It ext from northeast to northwest by north, and was without streamers or arcs, the northern bo

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1841—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
Inches.	°	°	°	°	°	*Inches.*			
29.872	84.0	100.0	85.0	80.0	76.0	.946	Westward	Moderate	Clear.
29.876	79.0	96.0	78.0	72.0	69.0	.709	Northeast	Light	Cir. strat.
29 950	73.0	92.0	69.0	67.0	52.0	.637	Northwest	Light	Cir. strat.
30.000	72.0	90.0	68.0	64.0	52.0	.552	Northwest	Light	Clear.
29.832	75.0	101.0	78.0	77 0	64.0	.899	Southward	Airs	Clear.
29.788	78.5	104.0	81.5	74.0	67.0	.744	Northwest	Airs	Clear.
29.824	80.0		76.0	76.0	76.0	.882	Southwest	Airs	Rain.
29.964	73.0	85.0	68.0	67.0	64.0	648	Southwest	Light	Clear.
30.032	71.0	98.0	74.0	70.0	64.0	.682	Westward	Airs	Clear.
29.846	75.5		77.5	74.0	64.0	.788	Southwest	Light	Stratus
29.994	71.0		70.0	62.0	55 0	.469	Northeast	Light	Stratus.
29.850	74.0	89.0	74.0	70.0	62.0	.683	E. N. E.	Light	Cir. strat.
29.838	76.0	95.0	81.0	78.0	70.0	.907	Southwest	Light	Clear.
29.862	82.0	101.0	86.0	81.0	76.0	.978	S'd & W'd	Light	Cumuli.
29.888	81.5	90.0	82.0	80.0	74.0	.979	Northwest	Light	Cir. strat.
29.870	76.0	94.0	75.0	70.0	64.0	.672	North	Moderate	Clear.
30.040	73.0	92.0	71.0	70.0	57.0	.716	Southeast	Airs	Clear.
30 012	74.0	93.0	75.0	74.0	63.0	.816	S'd & W'd	Light	Cirri.
30.036	75.0	92.0	75.0	74.0	64.0	.816	S. S. W.	Airs	Clear.
30.196	75.0	96.0	76.0	74 0	70.0	.805	Variable	Light	Cir. strat.
30.264	75.0	93.5	74.5	71.5	68.5	.729	Southwest	Light	Cir. strat.
30.126	77.0		80.0	75.0	72.0	.798	Southward	Airs	Clear.
30.050	79.0	100.0	83.0	80.0	69.0	.980	Southward	Light	Clear.
30.026	83.5	102.0	86.0	80.0	72.0	.935	South	Light	Cir. strat.
29.932	84 0	102.0	89.0	80.0	76.0	.902	N. N. E.	Fresh	Cumuli.
29.968	77.0	83.0	73.0	71.0	60.0	.729	Southeast	Light	Clear.
30.034	74.0	88.0	72 0	70.0	62.0	.705	Southwest	Light	Cir. cum.
29.924	76.5	88.5	79.0	76.0	64.0	.849	E. N. E.	Light	Cir. strat.
30.024	71.5	82.0	68.0	62.0	52.0	.492	Calm	Calm	Cum. strat.
29.810	76.0		78.0	78.0	68.0	.940	Eastward	Light	Cum. strat.
29.662	73.0		71.0	70.0		.716	Eastward	Light	Cum. strat.
29.949	76.3	93.88	76.57	73.18	65.53	.777			

REMARKS—Continued.

being covered with cirri. Its greatest effect on the magnetic needle was at 9*h*. 54*m*. 11*s*., mean time, the deviation from the mean place for the day being 40′ 14″ to the east.

July 31.—The hygrometer was accidentally broken.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1841—Continued.

Days of the month.		Phases of the moon.	3 P. M.									
			Barometer.	Thermometers.					Force of vapor.	Wind.		W
				Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
			Inches.	°	°	°	°	°	In's.			
Thu.	1		29.800	90.0	102.0	94.5	80.0	72.0	.841	West	Mod.	Cle
Fri.	2		29.871	81.0		82.0	72.0	64.0	.665	Northwest	Airs	Cu c
Sat.	3	○	29.880	76.0	99.0	77.0	69.0	65.0	.616	Northwest	Light	Cir
Sun.	4		29.950	75.0	97.0	76.0	72.0	62.0	.731	Calm	Calm	Cle
Mon.	5		29.764	80.0	100.0	86.0	75.0	64.0	.733	Southward	Mod.	Cle
Tues.	6		29.740	85.0	107.0	90.0	81.0	72.0	.934	S. S. W.	Light	Cle
Wed	7		29.750	79.0	87.0	82.0	78.0	72.0	.896	S'd & W'd	Light	Cu c
Thu.	8		29.960	74.0	85.0	75.0	73.0		.779	Westward	Mod.	Cle
Fri.	9		30.012	79.0	100.0	81.0	77.0	70.0	.866	Westward	Light	Cle
Sat.	10		29.856	82.0	98.0	82.5	76.0	64.0	.810	S'd & W'd	Mod.	Cle
Sun.	11	☾	29.831	74.0		77.0	71.0	64.0	.685	Westward	Mod.	Stra
Mon.	12		29.893	76.5	97.0	86.0	78.0	68.0	.852	Southwest	Light	Stra
Tues	13		29.832	86.0	94.0	89.0	76.0	72.0	.739	Southeast	Light	Stra
Wed.	14		29.788	90.5	100.0	88.0	80.0	74.0	.913	S'd & W'd	Light	Cu st
Thu.	15		29.850	87.5	104.0	87.0	76.0	69.0	.761	S'd & W'd	Mod	Cle
Fri.	16		29.860	80.0	105.0	80.0	76.0	66.0	.838	Northwest	Mod.	Cir
Sat.	17		30.020	76.0	92.0	79.0	68.0	63.0	.558	Northwest	Light	Cle
Sun.	18	●	29.976	77.0	95.0	83.0	70.0	66.0	.584	Southwest	Light	Cu
Mon.	19		30.012	81.0	97.0	86.5	77.0	63.0	.805	S'd & W'd	Light	Cir
Tues.	20		30.200	81.0	100.0	84.0	74.0	60.0	.715	S. S. E.	Light	Cle
Wed.	21		30.214	80.0	94.0	87.0	77.0	68.0	.809	S'd & W'd	Light	Cu
Thu.	22		30.056	82.0	100.0	90.0	78.0	70.0	.808	S'd & W'd	Light	Cir. s
Fri.	23		29.972	87.0	104.0	94.0	80.0	74.0	.847	S'd & W'd	Light	Cle
Sat.	24		29.964	89.5	101.0	95.0	80.0	70.0	.836	S'd & W'd	Mod.	Cir. s
Sun.	25	☽	29.826	84.0	102.0	89.0	80.0	76.0	.902	S'd & W'd	Light	Cir s
Mon.	26		29.962	80.0	104.0	80.0	72.0	60.0	.687	W. S. W.	Mod.	Cle
Tues.	27		29.970	80.0	96.0	85.0	80.0	68.0	.946	Calm	Calm	Cle
Wed.	28		29.874	80.5	107.0	85.0	72.0	66.0	.632	S'd & W'd	Light	Cir
Thu	29		29.940	78.5	96.0	82.0	72.0	65.0	.665	Southwest	Light	Cir s
Fri.	30		29.778	75.0		74.0	72.0	64.0	.753	E. S. E.	Light	Cu s
Sat.	31		29.650	78.0	98.0	81.0	70.0		.607	Southward	Light	Cir s
Mean			29.901	80.8	98.61	84.11	75.22	67.45	.768			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JULY, 1841—Continued.

9 P. M.									Registering thermom'rs.		Rain or melted snow.
	Thermometers.					Wind.					
Barometer.	Attached.	Dry.	Wet.	Dew point.	Force of vapor.	Direction.	Force.	Weather.	Maximum	Minimum.	
hes.	°	°	°	°	In's.				°	°	Inc's.
838	82.0	73.0	71.0	73.0	.729	West	Fresh	Rain	94.5	70.0	1.230
900	76 0	72.0	70.0	62.0	.705	Eastward	Airs	Clear	83.0	68.0	
931	76.0	68.0	66.0	61.0	.616	Calm	Calm	Clear	80.0	62.0	
812	74.0	67.0	65.0	54.0	.595	Calm	Calm	Clear	79.0	61.0	
730	80.0	78.0	72.0	64.0	.709	Calm	Calm	Clear	86.0	67.0	
744	83.0	77.0	74.0	77.0	.794	W. N. W.	Strong	Rain	91.0	70.0	.550
844	77.0	68.0	65.0	65.0	.584	Calm	Calm	Cum. strat.	82 0	60.0	.350
000	74.0	66.0	64.0	62.0	.575	Westward	Light	Clear	76.0	62.0	
960	75.0	71.0	68.0	63.0	.648	S. W.	Light	Clear	81.0	62.0	
924	77.0	71.0	69.0	60.0	.682	Calm	Calm	Clear	85.0	61.0	
830	74.0	67.0	64.0	61.0	.564	Calm	Calm	Stratus	78.5	61.0	
810	76.0	72.5	69.0	66.0	.665	S. S. W.	Mod.	Clear	86.0	62.5	
814	83.0	79.0	76.0	72.0	.849	Calm	Calm	Clear	90.0	68.5	
800	84.0	79.0	73.0	79.0	.735	S'd & W'd	Strong	Rain	92 0	76.0	1.086
856	85.0	73.0	70.0		.694	Calm	Calm	Clear	89.0	72.0	
962	78.0	70.0	68.0	62.0	.659	W. N. W.	Light	Clear	81.0	66.0	
992	77.0	67.0	64.0	60.0	.563	Calm	Calm	Clear	80.0	59.0	
970	76.0	69.0	66.0	68.0	.605	N'd & W'd	Airs	Clear	83.0	59.0	
064	74.0	73.0	70.0	60.0	.693	Calm	Calm	Clear	89.0	64.0	
220	78.5	73.0	70.0	63.0	.693	Variable	Var'ble	Clear	86.0	66.0	
172	79.0	77.0	70.0	68.0	.649	Southward	Light	Cirri	87.0	60.0	
022	82.0	77.0	75.0	72.0	.832	Calm	Calm	Clear	90.0	68.0	
992	85.0	82.0	76.0	73.0	.816	Calm	Calm	Clear	94.0	72.0	
962	87.0	84.0	80.0	72.0	.957	Calm	Calm	Cir. strat.	95.0	71.0	.014
882	84.0	71.0	71.0		.751	Westward	Fresh	Cum. strat.	92.0	71.5	.267
035	78.0	66.5	66.0	60.0	.632	Calm	Calm	Clear	80.0	60.0	
954	79.0	74.0	71.0	62 0	.718	Calm	Calm	Clear	87.0	58.5	
950	80.0	73.0	72.0	64.0	.764	Calm	Calm	Clear	85.0	70.0	
926	77.0	68.5	68.0	64.0	.675	Eastward	Airs	Cir. cum.	84.0	61.0	
730	75.0	68.0				Northeast	Light	Stratus	77.0	68.0	
744	73.0	65.0	64.0		.586	Northeast	Mod.	Clear	85.0	62.0	
915	78.6	72.24	69.57	65.44	.695				85.42	65.13	3.497

REMARKS.

AUGUST, 1841.

3 A. M.

Days of the month.		Phases of the moon.	Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.	
				Attached.	Dry.	Wet.			Direction.	Force.
			Inches.	°	°	°	°	*Inches.*		
Sun.	1		29.776	69.0	60.0	59.0	1.0	.495	Northward	Light
Mon.	2	○	30.064	69 0	59.0	58.0	1.0	.478	Variable	Variable
Tues.	3		30.158	72 0	59.0	58.0	1.0	.478	Calm	Calm
Wed.	4		30.100	75.0	64.0				Calm	Calm
Thu.	5		29.917	76.0	70 0	70.0	0.0	.727	Variable	Airs
Fri.	6		29.850	74.0	65.0	64.0	1.0	.586	Calm	Calm
Sat.	7		29.902	74.0	65.0	63.0	2.0	.556	Variable	Airs
Sun.	8		29.964	75.0	65.0	64.0	1.0	.586	Calm	Calm
Mon.	9		29.768	76.0	72 0	71.0	1.0	.740	S'd & W'd	Strong
Tues.	10	☾	29.992	75.0	71.0	68.0	3.0	.648	Variable	Airs
Wed.	11		29.892	77.0	72 0	71.0	1.0	.740	S'd & W'd	Light
Thu.	12		30.012	73.5	67.0	66.0	1.0	.627	Northwest	Airs
Fri.	13		29.902	71.0	64.0	62.0	2.0	.537	Calm	Calm
Sat.	14		29.904	72.0	64 0	63.0	1.0	.567	Calm	Calm
Sun.	15		30.066	74.0	65.0	63.0	2.0	.556	Eastward	Light
Mon.	16	●	30.186	73.0	60.5	60.0	0.5	.517	Northeast	Airs
Tues.	17		30.219	70.0	60 0	57.0	3.0	.439	Calm	Calm
Wed.	18		30.102	71.0	54.0	53.0	1.0	.403	Eastward	Airs
Thu.	19		29 996	70.0	57.0	56.0	1.0	.447	Calm	Calm
Fri.	20		30.074	72.0	65.0	65.0	0.0	.617	Calm	Calm
Sat.	21		30.108	74.0	71.0	71.0	0.0	.751	Calm	Calm
Sun.	22		29.979	78.0	72.0	70.5	1.5	.723	Northward	Airs
Mon.	23	☽	30.085	75.0	66.0	64.0	2.0	.575	N'd & W'd	Airs
Tues.	24		30.275	71.0	61.5	61.0	0.5	.535	Eastward	Airs
Wed.	25		29.859	65.0	61.0				Eastward	Airs
Thu.	26		30.158	70.0	62.0	61.0	1.0	.530	Eastward	Light
Fri.	27		29.955	69.0	66.0	66.0	0.0	.638	Calm	Calm
Sat.	28		30.003	76.0	68.5				N. N. E.	Light
Sun.	29		30.162	72.0	67.0				Calm	Calm
Mon.	30		30.103	76.5	72 0	72.0	0.0	.775	Southward	Light
Tues.	31	○	30.007	71.0	68.5	66.0	2.5	.610	S'd & W'd	Airs
Mean			30.017	72.7	64.97	63.80	1.15	.589		

REMARKS.

August 3.—At 11*h*. 30*m*. P. M., a halo encircled the moon. Its diameter measured

August 6.—From 8*h*. 2*m*. to 9*h*. 42*m*. P. M., (Gött. M. T., 7th, 1*h*. 50*m*. to 3*h*.
an aurora borealis visible; for an account of which, see the magnetical observations. The
est deviation of the magnetic needle from the mean place for the month of August was
at 8*h*. 9*m*. 28*s*. M. T., being 27′ 20″ to the east.

August 14.—From 8*h*. 42*m*. to 10*h* 42*m*., there was a diffused auroral light
from northeast to northwest by north. No streamers or arches.

August 17.—Began using a new barometer, suspended in the place of the old one. The
ference of their readings is applied to all the observations.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1841—Continued.

9 A. M.

	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
es.	°	°	°	°	°	*Inches*			
360	68.5	72.0	67.0	66.0	1.0	.627	Northward	Moderate	Cumuli.
136	71.0	94.0	73.0	69.0	4.0	.659	E. N. E.	Light	Clear.
190	74.0	96.0	73.0	70.0	3.0	.693	E. N. E.	Light	Clear.
116	75.5	102.0	78.5	76.0	2.5	.855	S'd & W'd	Light	Cir. cum.
50	76.0		76.0	76.0	0.0	.882	Southeast	Light	Rain.
76	73.0	95.0	78.0	72.0	1.0	.764	North	Light	Clear.
60	75.0	92.0	74.0	73.0	1.0	.790	S'd & E'd	Light	Clear.
00	75.0	90.0	78.0	75.0	3.0	.821	Southward	Light	Cirri.
386	77.0		78.0	76.0	2.0	.860	S'd & W'd	Light	Cum. stratus.
28	77.5		82.0	80.0	2.0	.989	Southwest	Light	Cum. stratus.
68	76.0		77.0	77.0	0.0	.910	Southwest	Light	Cum. stratus.
78	71.0		70.0	68.0	2.0	.659	Northward	Light	Cumuli.
38	71.0		73.0	71.0	2.0	.729	Calm	Calm	Cir. stratus.
66	72.5		72.0	70.0	2.0	.705	Northeast	Airs	Stratus.
170	73.0	88.0	72.0	71.0	1.0	.740	S. S. E.	Moderate	Cumuli.
240	82.0	88.0	68.0	67.0	1.0	.648	Northward	Moderate	Clear.
78	70.0	90.0	69.0	68.0	1.0	.670	Calm	Calm	Cumulus.
16	70.0	91.0	70.0	70.0	0.0	.727	Calm	Calm	Clear.
36	71.0		71.0	71.0	0.0	.751	Calm	Calm	Clear.
130	76.0	98.0	77.5	77.0	0.5	.905	Southward	Airs	Clear.
98	77.0	93.0	80.0	78.0	2.0	.918	S'd & E'd	Light	Cirrus.
73	77.0		80.0	77.0	3.0	.877	Northwest	Light	Cum. stratus.
187	72.0	82.0	70.0	69.0	1.0	.693	S. S. E.	Moderate	Clear.
367	74.0	92.0	73.0	68.0	5.0	.625	East	Moderate	Cirri.
327	70.0	80.0	71.0				N'd & E'd	Light	Stratus.
130	68.8		67.6	67.0	0.6	.652	Southeast	Light	Rain.
07	70.0		72.0				Calm	Calm	Cum. stratus.
85	70.5		70.0	70.0	0.0	.727	Northward	Airs	Rain.
88	77.0	95.5	75.7	75.7	0.0	.873	N'd & E'd	Light	Cumuli.
139	77.0	100.0	78.0	74.0	4.0	.782	Northwest	Moderate	Clear.
14	76.0	98.0	75.0	73.0	2.0	.779	Eastward	Airs	Clear.
69	73.7	91.39	73.69	72.23	1.61	.769			

REMARKS.*

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1841—Continued.

Days of the month.	Phases of the moon.	3 P. M.								
		Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.	
			Attached.	Sun.	Dry.	Wet.			Direction.	Force.
		Inches.	°	°	°	°	°	*Inch.*		
Sun. 1		29.924	74.0	79.0	72.5	66.0	6 5	.565	Northward	Moderate
Mon. 2	○	30.140	76.5	100.0	82.0	74.0	8.0	.788	E. S. E.	Light
Tues. 3		30.148	78.0	90.0	82.0	78.0	4.0	.896	E. N. E.	Light
Wed. 4		30.028	83.0	98.0	92.0	80.0	12.0	.869	S'd & W'd	Light
Thu. 5		29.850	76.0		76.0	75.0	1.0	.843	Calm	Calm
Fri. 6		29.878	79.0	106.0	82.0	78.0	4.0	.896	Northwest	Light
Sat. 7		29.944	80.0	91.0	85.0	80.0	5.0	.946	Northward	Light
Sun. 8		29.950	80.0		85.0	80.0	5.0	.946	Southward	Light
Mon. 9		29.888	83.0		87.5	80.0	7.5	.918	S'd & W'd	Light
Tues. 10	☾	29.964	80.0		87.0	80.0	7.0	.924	Southwest	Light
Wed. 11		29.950	77.0		71.0	70.0	1.0	.716	W. S. W.	Moderate
Thu. 12		30.026	74.0		77.0	75 0	2.0	.832	Westward	Light
Fri. 13		29.896	76.0		80.0	75.0	5.0	.799	S'd & W'd	Light
Sat. 14		29.964	77.0	104.0	81.5	77.0	4.5	.860	Northwest	Airs
Sun. 15		30.196	76.0	89.0	78.0	72.0	6.0	.708	Northeast	Moderate
Mon. 16	●	30.158	76.0	84.0	78.0	76.0	2.0	.860	Eastward	Moderate
Tues. 17		30.143	75.0	84.0	79.0	75.0	4.0	.810	N'd & E'd	Light
Wed. 18		30.005	76.0		80.0	73.0	7.0	.724	South	Light
Thu. 19		30.036	79.0	93.0	77.0	70.0	7.0	.649	N'd & W'd	Light
Fri. 20		30.085	82.0		86.0	80.0	6.0	.935	S. by W.	Moderate
Sat. 21		30.014	84.0	111.0	89.0	82.0	7.0	.990	Northwest	Fresh
Sun. 22		29.974	70.0	111.0	79.0	74.0	5.0	.772	East	Fresh
Mon. 23	☽	30.129	76.0		78.0	69.0	9.0	.603	East	Light
Tues. 24		30.347	75.0		77.0	70.0	7.0	.649	East	Moderate
Wed. 25		30.302	73 0		77.0	72.0	5.0	.719	East	Light
Thu. 26		30.051	68.0		65.0	65.0	0.0	.617	Calm	Calm
Fri. 27		29.914	74.0		80.0				Northward	Light
Sat. 28		30.081	77.0		80.0				Northward	Light
Sun. 29		30.162	82.0	107.0	85.5	80.0	5.5	.939	Northeast	Light
Mon 30		30.058	81.0	110.0	83.5	74.0	9.5	.722	N. N. E.	Light
Tues. 31	○	29.970	79.0		80.0	79.0	1.0	.959	Variable	Airs
Mean		30.031	77.3	97.13	80.40	75.14	5.29	.804		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

AUGUST, 1841—Continued.

9 P. M.									Registering thermom'rs.		Rain or melted snow.
	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.					
Barometer.	Attached.	Dry.	Wet.			Direction.	Force.	Weather.	Maximum.	Minimum.	
Inches.	°	°	°	°	*Inch.*				°	°	*Inches.*
30.042	71.0	64.0	62.0	2.0	.537	Variable	Airs	Clear	78.5	58.0	
30.148	75.0	68.0	67.0	1.0	.648	Calm	Calm	Cirrus	82.5	58.0	
30.108	76.0	70.0	68.0	2.0	.659	Calm	Calm	Clear	85.0	59.0	
30.002		72.0	68.0	4.0	.636	W. S. W.	Light	Rain	92.0	64.0	1.467
29.860	76.0	70.0	68.0	2.0	.648	Northward	Airs	Clear	76.0	69.0	.302
29.910	77.0	68.5	68.0	0.5	.676	S'd & E'd	Airs	Cirri	82.0	65.0	
29.954	78.0	70.0	66.0	4.0	.594	South	Airs	Clear	85.0	64.0	
29.932	78.0	75.0	75.0	0.0	.854	Westward	Airs	Stratus	85.0	63.5	
29.950	80.0	76.0	73.0	3.0	.768	Westward	Airs	Clear	87.5	72.0	
29.940	78.0	72.0	71.0	1.0	.740	S'd & W'd	Airs	Cir. stratus	87.0	71.0	.960
30.004	75.0	70.0	70.0	0.0	.727	Calm	Calm	Cum. strat.	86.0	69.0	1.183
29.968	72.0	68.0	68.0	0.0	.681	Calm	Calm	Cum. strat.	79.0	65.0	
29.936	75.0	70.5	69.0	1.5	.688	Calm	Calm	Clear	82.0	63.0	
30.022	75.0	68.5	67.0	1.5	.642	Southward	Airs	Clear	82.0	64.0	
30.186	75.0	68.0				Calm	Airs	Clear	78.0	64.5	
30.126	73.0	65.0	64 0	1.0	.586	Calm	Airs	Clear	78.0	60.0	
30.127	74.0	64.0	63.0	1.0	.567	Calm	Airs	Clear	79.0	56.0	
30.058	72.0	65.0	64.0	1.0	.588	Eastward	Airs	Clear	80.0	54.0	
30.074	75.0	70.0	70.0	0.0	.727	Calm	Calm	Clear	82.0	56.5	
30 108	78.0	76.0	74.0	2.0	.805	Calm		Clear	88.5	65.0	
30.038	78.0	73.0	72.0	1.0	.764	S'd & E'd	Fresh	Cloudy	91.0	70.0	.067
30.049	75.0	70.0	68.0	2.0	.669	Northward	Airs	Clear	82.0	67.0	
30.245	70.0	66.0	63.0	3.0	.544	E. S. E.	Light	Clear	78.0	63.5	
30.347	70.5	65.0	65.0	0.0	.617	Calm	Calm	Clear	77.0	61.0	
30.232	78.5	62.5	61.5	1.0	.539	Northward	Airs	Cir. stratus	77.0	59.0	
29.980	69.0	66.0	65.7	0.3	.629	Northeast	Airs	Rain	66.5	60.0	.062
29.984	74.0	72.0				Calm	Calm	Cum. strat.	80.0	62.0	
30.116	74.0	72.0	72.0	0.0	.775	Northeast	Airs	Rain	80.5	68.5	.810
0.139	77.5	75.0	72.0	3.0	.741	Northward	Airs	Cir. cum.	87.0	66.0	
0.049	77.0	71.0	70.0	1.0	.716	Calm	Calm	Cirrus	84.8	70 5	
9.956	75.0	70.5	70.0	0.5	.722	Calm	Calm	Cumulus	81.0	66.0	.080
0.052	75.2	69.47	68.07	1.36	.672				81.76	63.68	4.701

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1841.

Days of the month.	Phases of the moon.	3 A. M.								
		Barometer	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		
			Attached.	Dry.	Wet.			Direction.	Force.	W
		Inches.	°	°	°	°	°			
Wed. 1		29.884	72.5	64 0	62.0	2.0	.537	South	Airs	Cle
Thu. 2		29.985	71.0	66.0				Calm	Calm	Cle
Fri. 3		30.012	77.0	70.0	68.0	2.0	.559	N'd & W'd	Airs	Clea
Sat. 4		29.868	80.0	74.0	74.0	0.0	.827	S'd & W'd	Light	Cum
Sun. 5		29.963	77.0	69.0	68.0	1.0	.670	N'd & W'd	Light	Cle
Mon. 6		30.014	76.0	60.5				Calm	Calm	Cle
Tues. 7		30.121	76.0	68.0	64.0	4.0	.552	Eastward	Light	Cum
Wed. 8	☾	30.084	74.0	66.0	65.0	1.0	.606	Eastward	Light	Cum
Thu. 9		30.164	72.5	60.0	60.0	0.0	.523	N'd & E'd	Light	C
Fri. 10		30.155	72.0	60.0	60.0	0 0	.523	Calm	Calm	Str
Sat. 11		30 050	71.0	66.7	59.7	7.0	.440	E. N. E.	Light	St
Sun. 12		30.050	73.0	54.0	50.0	4.0	.328	East	Airs	[illegible]
Mon. 13		30.032	75.0	66.0	62.0	4.0	.514	N'd & E'd	Light	C
Tues. 14		30.150	73.0	63.0	60.0	3.0	.489	S'd & W'd	Mod.	C
Wed. 15	●	30.273	70.0	50.0	47.0	3.0	.303	Calm	Calm	Cle
Thu. 16		30.219	69.5	53.8	51.0	2.8	.355	Calm	Calm	Cle
Fri. 17		30.187	69.0	58.5	56.0	2.5	.430	East	Light	Ra
Sat. 18		30.081	69.0	55.0	53.0	2.0	.392	N'd & W'd	Mod.	Cle
Sun. 19		30.134	70.0	57.0	57.0	0 0	.473	N'd & E'd	Mod.	Cle
Mon. 20		30.240	70.0	56.0	54.0	2.0	.406	Calm	Calm	Cle
Tues. 21		30.143	70.0	57.8	56.0	1.8	.438	N'd & E'd	Light	Cum
Wed. 22	☽	29.972	68 5	68.0	57.0	11.0	.350	N'd & E'd	Light	Cum
Thu. 23		29.539	66.0	61.0	56.0	5.0	.403	N'd & E'd	Fresh	Rain
Fri. 24		29.716	73.0	67.5	67.0	0.5	.654	S'd & E'd	Light	Clou
Sat. 25		29.654	73.0	68 5	68.0	0.5	.676	West	Mod.	Stra
Sun. 26		29.894	71.0	50.0	46.0	4.0	.281	N'd & W'd	Mod.	Cum
Mon. 27		30.057	68.0	52.0	51.0	1.0	.375	Calm	Calm	Clea
Tues. 28		30.023	69.0	60.0	60.0	0.0	.523	Calm	Calm	Clea
Wed. 29		29.887	73.0	67.0	67.0	0.0	.659	Southward	Light	Cum
Thu. 30	○	29.886	72.0	59.0	56.0	3.0	.424	West	Light	Stra
Mean		30.014	71.4	61.61	59.07	2.39	.489			

REMARKS.

September 25.—At 7*h*. 24*m*. P. M., an auroral arch was visible, extending from nort to northwest by west. Its altitude at 7*h*. 40*m*. was 18°. It was entirely obscured b moonlight at 8*h*. 42*m*.

September 29.—At — P. M., wind changed suddenly from southwest to northwest, v lent squalls.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1841—Continued.

9 A. M.

	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
ches.	°	°	°	°	°	Inches.			
027	75.0	98.0	73.0	68.0	5.0	.625	N'd & E'd	Airs	Cirrus.
036	74.0	94.0	75.0	74.0	1.0	.816	S'd & W'd	Light	Cirrus.
028	77.0	100.0	77.0	75.0	2.0	.832	South	Light	Clear.
859	80.0	101.0	80.0	70.0	10.0	.617	South	Light	Cirrus.
005	75.5	99.0	73.0	68.0	5.0	.625	N'd & W'd	Light	Cirrus.
035	76 0	99.0	72.0	69.0	3.0	.670	N'd & E'd	Light	Cirrus.
143	76 0	87.0	73.5	70.0	3.5	.688	N'd & E'd	Light	Cum. strat.
095	74.0	96 0	74.0	70.0	4.0	.683	N'd & E'd	Light	Cumuli.
179	73.0	82 0	69.5	62.0	7.5	.475	Northward	Light	Cumuli.
188	72.0	87.0	68.0				East	Light	Cumuli.
027	72.0		71.2	69.5	1.7	.696	S'd & W'd	Light	Cum. strat.
	74.0	83.0	74.0	73.0	1.0	.790	Variable	Airs	Cum strat.
072	73.5	88.0	72.0	70.0	2.0	.705	Northward	Mod.	Cir. cum.
266	71.0		69.0	60.0	9.0	.421	N'd & E'd	Mod.	Clear.
351	70.0	96.0	65.8	61.0	4.8	.486	East	Light	Cirri.
347	70.0	76.0	66.0	66.0	0.0	.638	Northward	Airs	Clear.
156	68.0		56.0	55.0	1.0	.431	N'd & E'd	Mod.	Rain.
129	67.5	89.0	65.5	63.0	2.5	.550	N'd & W'd	Mod.	Clear.
241	70.0	91.0	64.2	61.0	3.2	.505	N'd & E'd	Airs	Clear.
214	69.5		67.0	67.0	0.0	.659	Calm	Calm	Cumuli.
147	70.0	90.0	65.6	64.0	1.6	.579	S'd & E'd	Light	Clear.
972	68.5		68.0	67.0	1.0	.648	N'd & E'd	Light	Cloudy.
787	69.0		69.0	69.0	0.0	.704	S'd & E'd	Fresh	Stratus.
863	73.5		72 6	72.6	0.0	.791	S'd & E'd	Mod.	Rain.
863	65.0	67.0	59.0	57.0	2.0	.451	N'd & W'd	Light	Clear.
180	67.5	70.0	60.0	59.0	1.0	.495	Variable	Airs	Clear.
027	70.0	73.0	70.0	70.0	0.0	.727	S'd & W'd	Fresh	Clear.
849	73.0	74.0	70.6	69.0	1.6	.686	S'd & W'd	Fresh	Light rain.
842	70.0	84.0	59.5	54.0	5.5	.366	N'd & W'd	Fresh	Clear.
066	71.9	87.45	68 97	66.18	2.81	.619			

REMARKS.

SEPTEMBER, 1841—Continued.

Days of the month.	Phases of the moon.	3 P. M.								
		Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.	
			Attached.	Sun.	Dry.	Wet.			Direction.	Force.
		Inches.	°	°	°	°	°	*Inch.*		
Wed. 1		29.988	78.0	90.0	82.5	72.0	10.5	.658	N'd & W'd	Light
Thu. 2		30.014	82.5	106.0	86.0	80 0	6.0	.935	South	Light
Fri. 3		29.885	83.5	98.0	87.5	79.5	8.0	.898	S'd & W'd	Mod.
Sat. 4		29.803	84.5	94.0	88 5	76.0	12.5	.744	S'd & W'd	Mod.
Sun. 5		29.962	79.0	88.0	81.0				West	Mod.
Mon. 6		30.074	81.0	107.0	82.0	75.0	7.0	.777	N'd & E'd	Airs
Tues. 7		30.303	78 5	93.0	79.0	72.0	7.0	.697	N'd & E'd	Mod.
Wed. 8	☾	30.063	77.0	86.0	78.0	74.0	4.0	.782	N'd & E'd	Mod.
Thu. 9		30.152	76.0	83.0	76.5	67.0	9.5	.553	Northward	Mod.
Fri. 10		30.134	76.0		78.0	75.0	3.0	.820	Eastward	Mod.
Sat. 11		29.968	75.0	90.0	79.2	74.0	5.2	.770	S'd & W'd	Light
Sun. 12		30.057	78.0	95.0	83.0	80.0	3.0	.967	Variable	Airs
Mon. 13		30.081	74.0		72.5	70.0	2.5	.699	Northward	Mod.
Tues. 14		30.220	74.5	96.0	74.0	66.0	8.0	.548	N'd & E'd	Mod.
Wed. 15	●	30.303	73.0	98.0	74.2	62.0	12.2	.421	East	Mod.
Thu. 16		30.293	71.0		72.0	68.0	4.0	.636	N. N. E.	Mod.
Fri. 17		30.072	67.5		57.0	56.0	1.0	.447	N'd & E'd	Mod.
Sat. 18		30.103	70.0	89.0	75.0	68.0	7.0	.603	N'd & W'd	Mod.
Sun. 19		30.152	72.5	93.5	73.2	69.0	4.2	.657	Variable	Airs
Mon. 20		30.161	71.5	86.0	75.0	73.0	2.0	.779	Variable	Airs
Tues. 21		30.061	73.0	84.0	76.2	71.0	5.2	.693	Calm	Calm
Wed 22	☽	29.872	70.0	79.0	72.0	68.0	4.0	.636	N'd & E'd	Light
Thu. 23		29.783	76.0	104.0	80.5	77.0	3.5	.871	S. S. W.	Mod.
Fri. 24		29.760	75.0		77.2	74.0	3.2	.792	S'd & E'd	Light
Sat. 25		29.867	72.0	91.0	69.4	64.0	5.4	.537	N'd & W'd	Mod.
Sun. 26		29.858	71.0	84.0	74.5	71.0	4.5	.701	N'd & W'd	Light
Mon. 27		30.100	69.5	89.0	73.0	70.0	3.0	.693	S'd & E'd	Light
Tues. 28		29.926	74.0	89.0	79.6	72.0	7.6	.690	Southwest	Light
Wed 29		29.812	75.0	92.0	79.2	74.0	5.2	.770	Southwest	Light
Thu. 30	○	29.938	69.0	76.0	62.0	57.0	5.0	.417	N'd & W'd	Mod.
Mean		30.026	74.90	91.22	76.59	70.84	5.63	.696		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

SEPTEMBER, 1841—Continued.

	9 P. M.								Registering thermom'rs.		
	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.	Maximum.	Minimum.	Rain or melted snow.
	Attached.	Dry.	Wet.			Direction.	Force.				
es.	°	°	°	°	Inch.				°	°	Inch.
83	74.0	74.0				East	Airs	Clear	86 0	64.0	
32	80.0	74.0	74.0	0.0	.827	Northward	Airs	Clear	86.0	65 0	
80	81.5	77.0	75.0	2.0	.832	Southwest	Mod.	Cirri	87.5	67.0	
96	80.0	76 0	68.0	8.0	.593	N'd & W'd	Mod.	Clear	88 5	70 0	
74	79.0	70 0				Calm	Calm	Clear	82.0	65.0	
94	76.5	68.0	68 0	0.0	.681	Calm	Calm	Cirri	80.0	60 0	
91	76.0	68 0	67.0	1.0	.648	East	Airs	Clear	78.0	64.0	
71	75.0	66.0	65.0	1.0	.606	N'd & E'd	Airs	Clear	84 0	65.0	
55	73.5	64.0	63.0	1.0	.567	Calm	Calm	Clear	73.0	60.0	
.08	73.0	65.4	61.0	4.4	.492	Calm	Calm	Clear	81.0	59 0	
52	74.5	68 5	66 0	2.5	.610	Calm	Calm	Clear	83 0	61.0	
66	75.0	70.2	68.0	2.2	.656	N'd & E'd	Mod.	Cum. strat.	83 0	64.0	
.17	71 0	64.0	62.0	2.0	.537	Calm	Calm	Clear	74.5	63.0	
69	72.0	59.0	52.0	7.0	.320	Calm	Calm	Clear	74.0	57.0	
38	71.0	61.0	59.0	2.0	.483	East	Airs	Cirrus	74.2	48.5	
47	69.0	62.6	61.0	1.0	.530	N'd & E'd	Airs	Cirrus	74 0	50 0	
81	68.0	56 0	55.0	1.0	.431	N. N. W.	Fresh	Cirrus	59.2	56.0	1.160
90	69.0	62.8	61.0	1.8	.530	N'd & E'd	Mod.	Clear	75 0	53 0	
25	70.0	61.0	60.0	1.0	.512	Calm	Calm	Clear	76.0	57.0	
56	71.0	64.5	63.0	1.5	.561	N'd & E'd	Airs	Clear	75.0	56.0	
92	68.5	68.0	67.0	1.0	.648	Calm	Calm	Cumulus	76.2	57 0	
45	68.5	64.0	63.0	1.0	.567	S'd & E'd	Light	Stratus	72.0	61.0	0.085
11	73.0	70 0	70.0	0.0	.727	S'd & E'd	Light	Rain	80 5	61.0	0.536
61	74.0	70.0	70.0	0.0	.727	S. S. E.	Mod.	Stratus	77.2	67.0	
36	70.0	58.0	55.0	3.0	.408	N'd & W'd	Mod.	Stratus	70.0	55.4	
65	70.0	65.0	62.0	3.0	.525	West	Mod.	Clear	74.5	48 0	
35	70.0	60.5	59.0	1.5	.489	S'd & E'd	Light	Clear	73.0	49.0	
91	73.0	71.0	69.0	2.0	.682	Variable	Airs	Cum. strat.	80.4	59.0	
59	73.0	61.0	60.5	0.5	.526	Westward	Light	Cum. strat.	79.2	61.0	0.025
81	68.0	52.0	48.0	4.0	.304	N'd & W'd	Fresh	Clear	64.0	47.5	
31	72.9	65.72	63.27	1.98	.572				77.53	59.01	1.806

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1841.

Days of the month.	Phases of the moon.	3 A. M.								
		Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		W
			Attached.	Dry.	Wet.			Direction.	Force.	
		Inches.	°	°	°	°	Inches.			
Fri. 1		30.143	69.0	45.0	42.0	3.0	.249	Northwest	Fresh	Cir
Sat. 2		30.291	65.0	47.0	44.0	3 0	.270	N'd & E'd	Mod.	Cle
Sun. 3		30 095	64.5	44.0	42.0	2.0	.261	E. N. E.	Fresh	Ra
Mon. 4		30.121	63.0	40.0	38.0	2.0	.224	Westward	Mod.	Cle
Tues. 5		30.223	62.0	41.0	35.0	6.0	.154	N. by W.	Mod.	Cle
Wed. 6		30.184	61.0	43.0	41.0	2.0	.252	N. by W.	Light	Cle
Thu. 7	☾	30.198	63.0	38.5	36.0	2.5	.202	Calm	Calm	Cu
Fri. 8		29.939	65.0	52.0	51.0	1.0	.376	Calm	Calm	Cle
Sat. 9		29.936	65.0	48.0	45.0	3.0	.280	S. & E.	Light	Cle
Sun. 10		30.119	65.0	44.0	42.0	2.0	.242	Calm	Calm	Cl
Mon. 11		30.237	64.5	41.0	40.0	1.0	.253	S'd & W'd	Light	[illegible]
Tues. 12		29.961	68.5	61.0	60.0	1.0	.512	N. by E.	Fresh	[illegible]
Wed. 13		29.966	69.0	57.0	54.0	3.0	.394	N'd & W'd	Mod.	C
Thu. 14	●	30.195	64.0	44.5	41.0	3.5	.234	Calm	Calm	C
Fri. 15		30.293	63.0	41.0	35.0	6.0	.154	South	Airs	Cle
Sat. 16		30.052	64.0	53 0	39.0	14.0	.096	N. by W.	Mod.	Cu
Sun. 17		30.247	61.0	39.0	37.0	2.0	.216	North	Airs	Cle
Mon. 18		30.287	59.0	33.5	33.0	0.5	.202	Calm	Calm	Clea
Tues. 19		30.268	55.5	33.0	32.0	1.0	.188	N. by E.	Light	Rain
Wed. 20		29.767	57.0	44.0	41.0	3.0	.240	S'd & W'd	Mod.	Cu
Thu. 21		29.607	56.0	42.0	40.0	2.0	.212	S'd & W'd	Mod.	Cu
Fri. 22	☽	29.683	58.0	38.0	31.0	7.0	.114	West	Light	Cu
Sat. 23		29.914	57.0	43.0	40.0	3.0	.230	W. S. W.	Mod.	Cle
Sun. 24		29.822	59.0	44.5	42.0	2.5	.255	W. S. W.	Mod.	Cle
Mon. 25		30.088	56.0	34.0	30.0	4.0	.145	W. S. W.	Mod.	Clea
Tues. 26		30.311	53.0	27.0				Calm	Calm	Clea
Wed. 27		30.180	56.0	37.5	33.0	4.5	.156	N'd & E'd	Fresh	Cle
Thu. 28		30.332	58.0	39.0	36.0	3.0	.196	N'd & E'd	Mod.	Cum
Fri. 29		30.486	57.0	46.0	45.0	1.0	.303	Calm	Calm	Cum
Sat. 30	○	30.404	63.0	53.0	45.0	8 0	.223	Calm	Calm	Strat
Sun. 31		30.336	65.0	53.0	50.0	3.0	.339	Southeast	Light	Cir.
Mean		30.120	61.5	43.43	40.67	3.32	.240			

REMARKS.

October 7.—At 5*h*. A. M., a bright lunar halo, measuring in diameter 46° 50′.

October 20.—At 10*h* 30*m*. A. M., wind changed suddenly from south southwest to nor northwest.

October 27.—The *Indian summer* commenced.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1841—Continued.

9 A. M.

	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
hes.	°	°	°	°	°	Inches.			
238	66.5	78.0	52.5	50.0	2.5	.345	Northwest	Light	Clear.
377	65.5	70.0	53.5	50.0	1.5	.356	Northeast	Fresh	Clear.
064	64.0		43.5	40.0	3.5	.225	N'd & W'd	Fresh	Rain.
075	60.0	69.0	47.5	43.0	4.5	.242	N. N. W.	Mod.	Clear.
078	70.0	72.0	49.5	44.0	5.5	.241	Northwest	Mod.	Clear.
282	59.0	66.0	50.0	49.0	1.0	.350	W. S. W.	Mod.	Clear.
144	61.0	68.0	47.0	46.0	1.0	.315	Calm	Calm	Clear.
919	64.0		56.0	50.0	6.0	.306	S'd & E'd	Light	Cloudy.
060	65.0	85.0	53.5	53.0	0.5	.409	West	Light	Clear.
317	63.5	78.0	49.0	48.0	1.0	.338	Calm	Calm	Clear.
210	63.0	78.0	50.0	49.0	1.0	.350	Calm	Calm	Clear.
913	67.0		62.0	61.0	1.0	.530	S'd & W'd	Mod.	Rain.
146	65.0	69.0	52.5	49.0	3.5	.321	N. N. W.	Mod.	Clear.
356	61.5	72.0	49.0	44.0	5.0	.247	Northwest	Fresh	Clear.
227	55.0	64.0	45.0	44 0	1.0	.293	N. by W.	Mod.	Clear.
119	62.0		51.0	50.0	1.0	.362	N'd & E'd	Fresh	Rain.
810	57.5	68 0	44.0	39.0	5.0	.198	N. N. W.	Mod.	Clear.
288	54.5	66.0	43.0	40.0	3.0	.230	North	Mod.	Clear.
210	53.0	49.0	39.0	39.0	0.0	.255	Variable	Airs	Cir. strat.
666	55.0		49.0	48.0	1.0	.338	S'd & W'd	Airs	Cloudy.
640	52.0		50.0	44.0	6.0	.238	Northwest	Mod.	Cum. strat.
736	54.0	62.0	46.5	44.0	2.5	.276	West	Fresh	Clear.
936	55 0	66.0	50.0	44.0	6.0	.237	West	Light	Cirrus
963	53.5	56.0	46.0	44.0	2.0	.282	Southwest	Fresh	Clear.
320	47.5	58.0	37.5	32.0	5.5	.143	Northwest	Fresh	Clear.
304	49.0	51.0	35.0	33.0	2.0	.185	S'd & W'd	Mod.	Clear.
372	54.0	64.0	42.0	42.0	0.0	.283	Calm	Calm	Clear.
346	55.0	46.0	43.0	41.0	2.0	.252	N'd & E'd	Fresh	Cumuli.
492	54.0	58.0	54.0	52.0	2.0	.378	S'd & E'd	Light	Cloudy.
438	64.0		50.5	50.0	0.5	.367	Calm	Calm	Cir. strat.
436	63.5		55.0	54.0	1.0	.417	Calm	Calm	Cir. strat.
161	59.1	65.39	48.26	45.68	2.52	.300			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1841—Continued.

Days of the month.		Phases of the moon.	3 P. M.									
			Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		W…
				Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
			Inches.	°	°	°	°	°	*In's.*			
Fri.	1		30.233	67.0	92.0	63.0	55.0	8 0	.351	Northeast	Airs	[illegible]
Sat.	2		30.233	66.0		57.0	52.0	5.0	.344	E. by N.	Strong	[illegible]
Sun.	3		30 035	62.0		44.0	41.0	3.0	.240	N'd & W'd	Mod.	[illegible]
Mon.	4		30.038	60.0	85.0	57.0	49.0	8.0	.271	N. N. W.	Strong	[illegible]
Tues.	5		30.219	61.0	80.0	58.0	50.0	8.0	.282	Northwest	Mod.	[illegible]
Wed.	6		30.202	59.5	78.0	59.0	56.0	3.0	.424	West	Mod.	[illegible]
Thu.	7	☾	29.979	65.0	80.0	66.0	62.0	4.0	.514	S'd & W'd	Light	[illegible]
Fri.	8		29.857	65.0		60.0	59.0	1.0	.495	S'd & W'd	Light	[illegible]
Sat.	9		30.015	65.0	81.0	61.0	58.0	3.0	.455	Northwest	Mod.	[illegible]
Sun.	10		30.246	66.0	84.0	61.0	59.0	2.0	.484	S'd & W'd	Airs	[illegible]
Mon.	11		30 101	66.0	82.0	65.0	62.0	3.0	.525	S'd & E'd	Mod.	[illegible]
Tues.	12		29.875	67.0		67.0	65.0	2.0	.595	West	Mod.	[illegible]
Wed.	13		30.132	65.0		57.0	52.0	5.0	.343	N'd & W'd	Mod.	[illegible]
Thu.	14	●	30.306	62.0	68 0	58.0	48.0	10.0	.235	N. N. W.	Mod.	[illegible]
Fri.	15		30.035	64.0	80 0	64.0	60.0	4.0	.478	S. by W.	Fresh	[illegible]
Sat.	16		30.139	62.0		48.0	46.0	2.0	.304	N'd & E'd	Mod.	[illegible]
Sun.	17		30.084	59.0	70.0	51.0	43.0	8.0	.202	North	Mod.	[illegible]
Mon.	18		30.290	57.0	80.0	50.5	46.0	4.5	.275	N. by W.	Mod.	[illegible]
Tues.	19		30.072	57.0		54.0	49.0	5.0	.305	N. N. W.	Light	[illegible]
Wed.	20		29,621	57.0	70.0	54.0	48.0	6.0	.282	Northwest	Fresh	[illegible]
Thu.	21		29.708	57.0		56.0	46.0	10.0	.216	Northwest	Mod.	[illegible]
Fri.	22	☽	29.736	58.0		51.5	48.0	3.5	.310	N'd & W'd	Fresh	[illegible]
Sat.	23		29 826	57.0	62.0	55.0	52.0	3.0	.366	W. N. W.	Fresh	[illegible]
Sun.	24		29.965	57.0	60.0	53.0	43.0	10.0	.181	W. N. W.	Fresh	[illegible]
Mon.	25		30.323	54.0	62.0	43.0	34.0	9.0	.096	W. N. W.	Fresh	[illegible]
Tues.	26		30.086	55.0	80.0	55.0	53.0	2.0	.392	S'd & W'd	Fresh	[illegible]
Wed.	27		30.240	60.0	77.0	63.0	61.0	2.0	.519	Westward	Light	[illegible]
Thu.	28		30.468	58.0	74.0	58.0	53.0	5.0	.357	N'd & E'd	Light	[illegible]
Fri.	29		30.342	62.0	66.0	61.0	60.0	1.0	.512	S'd & E'd	Light	[illegible]
Sat.	30	○	30.392	64.0		64.0	62.0	2.0	.537	Calm	Calm	[illegible]
Sun.	31		30.440	64.0		62.0	61.0	1.0	.530	S'd & E'd	Light	[illegible]
Mean			30.104	61.2	72.05	57.28	52.68	4.61	.368			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

OCTOBER, 1841—Continued.

9 P. M.									Registering thermom'rs.		Rain or melted snow.
Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.	Maximum.	Minimum.	
	Attached.	Dry.	Wet.			Direction.	Force.				
ches.	°	°	°	°	°				°	°	Inch.
.282	68.0	47.5	44.0	3.5	.264	Calm	Calm	Clear	63.0	43.0	
.237	65.5	48.0	46.0	2.0	.304	N'd & E'd	Mod.	Rain	58.0	45.0	1.095
.130	62.5	43.5	41.0	2.5	.246	Westward	Mod.	Clear	44.0	42.0	.270
.184	62.0	45.5	42.0	3.5	.243	Northwest	Mod.	Clear	57.0	40.0	
.211	61.5	46.0	42.0	4.0	.237	Calm	Calm	Clear	58.0	38.0	
.206	62.0	44.0	42.0	2.0	.261	Northeast	Airs	Clear	59.0	40 0	
.971	66.0	57.0	53.0	4 0	.369	S'd & W'd	Light	Clear	66.4	35.5	
.853	64.0	55.0	52.0	3.0	.366	S'd & W'd	Light	Clear	60.0	52.0	
.855	66.0	52.0	49.0	3.0	.327	Calm	Calm	Clear	66.5	46.0	
.255	65.0	46.0	43.0	3.0	.259	Calm	Calm	Clear	61.0	42.0	
035	67.0	62.0	62.0	0.0	.559	S'd & W'd	Mod.	Stratus	67.5	40.0	
875	67.0	63.5	61.0	2.5	.514	S'd & W'd	Light	Rain	67.0	60.5	1.760
211	65.0	47.5				N'd & W'd	Light	Clear	58.0	47.5	
.306	62.0	44.5	40.0	4.5	.213	Calm	Calm	Clear	58.0	43.0	
030	63.0	56.0	50.0	6.0	.306	South	Airs	Stratus	64.0	37.0	
139	60.0	44.5	42.0	2.5	.255	N'd & E'd	Light	Rain	53.0	45.0	.410
.210	58.0	48.0	42.0	6.0	.215	N. N. W.	Light	Clear	51.0	39 0	
.308	56.0	36.0	31.0	5.0	.135	East	Airs	Clear	50.5	33.0	
954	55.0	44.0	42.0	2.0	.261	N'd & E'd	Light	Rain	54.0	30.5	.440
607	56.0	45.0	42.0	3.0	.249	S'd & W'd	Light	Clear	56.5	42.0	
.690	57.5	47.0	44.5	2.5	.281	S'd & W'd	Light	Cum. strat.	56.0	40 0	
.884	59.0	44.0	40.0	4.0	.219	West	Light	Cum. strat.	51.5	36.0	
.810	59 0	45.5	42.0	3.5	.244	North	Fresh	Cum. strat.	55.0	40.0	
.105	56.0	39.0	36.0	3.0	.196	West	Fresh	Clear	53.0	37.0	
353	53.0	30.0				Northwest	Mod.	Clear	44.0	28.5	
062	56.0	48.5	41.0	7.5	.189	W. S. W.	Mod.	Clear	55.0	27.0	
280	67.0	43.0	38.0	5.0	.189	N'd & W'd	Light	Clear	63.0	35.0	
458	57.5	52 0	46.0	6.0	.258	N'd & E'd	Light	Cloudy	58.0	38.0	
.392	63.5	53.5	50.0	3.5	.333	Calm	Calm	Cir. strat.	66.0	41.0	
342	65.0	53.5	50.0	3.5	.333	Calm	Calm	Cir. strat.	64.0	49.0	
422	65.0	56.0	54.0	2.0	.406	Calm	Calm	Cir. strat.	63.0	51.0	
118	61.6	47.98	45.09	3.53	.284				58.07	40.76	3.975

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1841.

3 A. M.

Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.
	Attached.	Dry.	Wet.			Direction.	Force.	
Inches.	°	°	°	°	*Inches.*		*Lbs.*	
30.364	66.0	52.0	50.0	2.0	.350	Calm	0.00	Cum. strat.
30.005	69.0	62.0	60.0	2.0	.501	S'd & E'd	Gale	Cum. strat.
29.986	67.5	40 5	36.0	4.5	.180	Calm	0.00	Clear
29.636	67.0	48.5	44.5	4.0	.264	S'd & W'd	0.26	Cumulus
29.874	61.0	37.0	34.0	3.0	.180	N'd & W'd	0.26	Clear
30.136	57.0	38.0	36.0	2.0	.207	N'd & W'd	1.23	Clear
30.340	55 5	30.0	28.0	2.0	.153	West	0.06	Clear
30.130	57.5	44.5	40.0	4.5	.213	West	0.06	Cum. strat.
30.256	61.5	46.5	42.0	4.5	.232	N'd & E'd	0.26	Clear
30.533	59.0	42.0	38.0	4.0	.200	N'd & E'd	0.06	Cloudy
30.450	56.0	43.0	42.0	1.0	.272	N'd & E'd	0.13	Rain
29.956	60.0	47.0	44.0	3.0	.270	S'd & W'd	0.13	Cir. strat.
29.696	60.0	48.0	46.0	2.0	.304	North	10 42	Cum. strat.
29.811	58.0	33.0	32.0	1.0	.188	S'd & W'd	0.26	Clear
29.686	57.0	38.5	34.0	4.5	.164	N. N. W.	0.26	Clear
29.776	53.0	39.0	35.0	4.0	.177	N'd & W'd	0.26	Cumulus
29.996	54.0	32.0				N'd & W'd	0.13	Cumulus
29.911	56.0	39.0	35.0	4.0	.177	Calm	0.00	Fog
29.906	57.0	36.0	34.0	2.0	.192	N'd & E'd	0.65	Stormy
29.756	56.0	36.0	34.0	2.0	.192	Airs	0.06	L't rain
30.142	57.0	34.0	32.0	2.0	.177	N'd & W'd	0.13	Cumulus
30.080	57.0	44.0	39.0	5.0	.199	Calm	0.00	Cir. strat.
29.982	62.5	48.0	36.0	7.0	.151	Westward	0.13	Clear
30.162	61.5	40.5	38.0	2.5	.218	Eastward	0.06	Rain
29.710	61.0	43.0	41.0	2.0	.252	S'd & W'd	0.21	Stratus
30.006	56.0	36.0	31.0	5.0	.141	N'd & W'd	6.40	Clear
30.351	53.5	24.5				Calm	0.00	Clear
30.136	45.0	26.5				Northward	0.13	Snow
30.316	44.0	27.0				N'd & W'd	0.13	Cum. str.
30.038	58 1	39.69	38.46	3.18	.222			

REMARKS.

3.—Last day of the Indian summer.
12.—From 8 P. M. to midnight, clear, with strong winds from the northwar
d.
13.—From midnight to 1*h*. 30*m*. A. M., clear. At 2 A. M., a violent squall
hward, the pressure of the wind exceeding 10 pounds per square foot. At 3, cleared
lowing meteors were seen during the night, there being three observers constantly
ut.—See page 532.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1841—Continued.

9 A. M.

Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
ches.	°	°	°	°	°	Inches.		Lbs.	
30.320	63.5	70.0	62.0	61.0	1.0	.550	Southwest	0.26	Cumuli.
30.082	66.5	68.5	61.5	60.5	1.0	.521	Calm	0.00	Cumuli.
29.936	61.5	72.0	42.5	41.0	1.5	.257	N'd & W'd	0.13	Cir. strat.
29.708	61.0		49.0	46.0	3.0	.292	N'd & W'd	2.68	Cumuli.
30.010	56.0		45.0				West	0.26	Cum. strat.
30.216	54.0	58.0	42.0	34.0	8.0	.123	N'd & W'd	0.52	Clear.
30.380	52.0		38.5	35.0	3.5	.182	N'd & W'd	0.26	Cum. strat.
30.156	56.5		48.5	46.0	2.5	.298	West	0.26	Cum. strat
30.420	57.0		44.0	42.0	2.0	.260	N'd & E'd	0.30	Cum. strat.
30.536	55.5		44.0	42.0	2.0	.260	N'd & E'd	0.26	Cum. strat.
30.412	57.0		43.0	42.0	1.0	.271	N'd & E'd	0.26	Rain.
29.780	56.0		48.0	48.0	0.0	.349	Calm	0.00	Rain.
29.814	56.0	61.0	46.0	38.0	8.0	.156	S'd & W'd	0 26	Clear.
29.768	55.0	54.0	40.5	40.0	0.5	.259	S'd & W'd	0.15	Clear.
29.668	55 0		40.0	37.0	3.0	.204	W. by N.	3.64	Cum. strat.
29.872	50.0	48.0	39.5	37.0	2.5	.210	Northwest	1.84	Clear.
30.002	51.0	46.0	37.5				S. S. W.	0.06	Clear.
29.944	56.0		41.0	40.0	1.0	.253	Calm	0.00	Cum. strat.
29.868	54.0		35.0	34.0	1.0	.203	Northeast	0.78	L't rain.
29.976	52.5		40.0	37.0	3.0	.204	N'd & W'd	0 52	Cloudy.
30.282	54.5		40 0	39.0	1.0	.244	Calm	0.00	Stratus.
29 986	55,5		45.5	44.0	1.5	.287	Calm	0.00	Rain.
29.986	59.0	64.0	50.0	44.0	6.0	.237	N'd & W'd	0.06	Clear.
30.166	59.0	60.0	38.0	36.0	2.0	.207	Calm	0.00	Clear.
30.102	58.0		39.5	37.0	2.5	.210	Calm	0.00	Rain.
29.671	57.0		44.5	44.0	1.5	.287	S'd & E'd.	0.13	Stratus.
30.136	52.0		35.5	30.5	5.0	.138	N'd & W'd	0.13	Cumulus.
30.450	48.0		26.0				Calm	0.00	Stratus.
30.148	42.0		28.5				Calm	0.00	Stratus.
30.451	43.0	47.0	24.0				Calm	0.00	Clear.
30.075	55.1	58.95	41.97	41.40	2.56	.258			

REMARKS—Continued.

he force or pressure of the wind is measured by a Lind's wind gauge.
he rain opposite the 29th day of the month is 6 inches of melted snow.

NOVEMBER, 1841—Continued.

Days of the month.	Phases of the moon.	3 P. M.									
		Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		W
			Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
		Inches.	°	°	°	°	°	*In's.*		*Lbs.*	
Mon. 1		30.184	70.0	90.0	74.0	66.0	8.0	.548	S. by W.	0.26	C
Tues. 2		30.062	67.0	70.0	67.5	59.5	8.0	.425	W. by N.	0.26	C
Wed. 3		29.736	65.0	81.0	61.5	52.0	9.5	.294	S'd & W'd	0.26	C
Thu. 4		29.768	61.0		40.0	38.0	2.0	.224	N'd & E'd	1.04	Cu
Fri. 5	☾	30.036	58.5	53.0	49.0	41.0	8.0	.183	W. by S.	1.56	C
Sat. 6		30.218	59.5	52.0	49.0	46.0	3.0	.292	Northwest	0.52	C
Sun. 7		30.286	57.0	66.0	50.0	46.0	4.0	.280	West	0.26	C
Mon. 8		30.026	58.0		66.0	56.0	10.0	.346	S'd & W'd	0.26	C
Tues. 9		30.448	60.0		47.5	45.0	2.5	.286	N'd & E'd	0.15	[illegible]
Wed. 10		30.446	58.0		47.0	44.5	2.5	.281	N'd & E'd	0.15	C
Thu. 11		30.276	60.0		48.0	45.5	2.5	.292	Calm	0.00	[illegible]
Fri. 12		29.692	61.0		62.0	54.0	8.0	.339	West	4.68	C
Sat. 13	●	29.805	58.0	76.0	55.0	42.0	13.0	.137	S'd & W'd	1.56	C
Sun. 14		29.464	60.0	72.0	61.0	56.0	5.0	.403	S'd & W'd	0.26	C
Mon. 15		29 640	54.0		41.5	39.0	2.5	.227	N. by W.	2.60	C
Tues. 16		29.980	52.0	63.0	43.0	40.0	3.0	.230	Northwest	1.04	[illegible]
Wed. 17		29.914	57.0		53.0	51.0	2.0	.364	Calm	0.00	S
Thu. 18		29.856	58.0		52.5	46.0	6.5	.253	Calm	0.00	C
Fri. 19		29.736	58.0		37.0	35.0	2.0	.200	N. N. E.	0.39	Ra
Sat. 20		30.006	54.0		42.0	37.0	5.0	.181	S'd & W'd	0.20	
Sun. 21	☽	30.216	56.0		48.0	45.0	3.0	.280	S'd & W'd	0 10	Cu
Mon. 22		29.748	60.0		54.5	54.0	0.5	.423	S'd & E'd	0.06	C
Tues. 23		29.946	62.0		57.5	52.0	5.5	.338	Westward	0.06	C
Wed. 24		30.130	61.0		50.0	47.0	3.0	.303	N'd & W'd	0.21	Cu
Thu. 25		29.910	61.0		42.0	39.0	3.0	.221	Calm	0.00	Rai
Fri. 26		29.661	62.5		50.5	50.0	0 5	.368	S'd & W'd	0.06	Cu
Sat. 27		30.254	55.0	62.0	35.5	29.0	6.5	.113	N'd & W'd	0.26	Clea
Sun. 28	○	30.336	51.0		32.0	28.0	4.0	.132	N'd & W'd	0.26	S
Mon. 29		30.156	45.0		32.0				N'd & W'd	0.06	Cu
Tues. 30		30.391	47.0	40.0	35.5	30.0	5.5	.130	N'd & W'd	0.06	Cu
Mean		30.010	58.2	65.91	49.47	45.29	4 77	.279			

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

NOVEMBER, 1841—Continued.

9 P. M.									Registering thermometers.		Rain or melted snow.
Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.	Maximum.	Minimum.	
	Attached.	Dry.	Wet.			Direction.	Force.				
Inches.	°	°	°	°	*In's.*		*Lbs.*		°	°	*Inch.*
30.048	69.0	64.0	63.0	1.0	.567	S'd & E'd	0.26	Cum. str.	74.0	52.0	
29.986	67.0	51.0	44.0	7.0	.226	South	0.06	Clear	67.5	59.0	
29.610	65.5	48.0	44.0	4.0	.259	S'd & W'd	0.06	Cumulus	61.5	37.0	
29.824	61.0	42.0	39.0	3.0	.221	N'd & W'd	0.52	Cumulus	49.5	41.0	
30.124	57.5	43.0	41.0	2.0	.252	West	1.56	Clear	49.0	36.0	
30.372	57.5	39.0	32.0	7.0	.128	West	0.06	Clear	49.0	38.0	
30.250	58.0	44.0	40.0	4.0	.218	West	0.06	Cumulus	50.0	30.0	
30.136	60.0	60.0	58.0	2.0	.467	S'd & W'd	0.06	Cum. str.	66.0	43.0	
30.511	58.0	42.0	40.0	2.0	.241	N'd & E'd	0.06	Cum. str.	47.5	40.0	
30.484	57.0	43.0	42.0	1.0	.263	N'd & E'd	0.26	Rain	49.0	41.0	
30.156	59.5	46.0	44.0	2.0	.281	Calm	0.00	Cir. strat.	48.0	42.5	.600
29.723	59.0	51.0	48.0	3.0	.315	Northwest	1.56	Clear	62.0	47.0	
29.886	58.0	42.0	36.0	6.0	.163	Calm	0.00	Clear	55.0	40.0	
29.628	57.0	44.5	35.0	9.5	.116	W. N. W.	1.95	Clear	61.0	32.0	
29.756	54.0	40.5	34.0	6.5	.141	S'd & W'd	0.52	Cumuli	43.5	38.0	
29.992	54.0	33.5	32.0	1.5	.184	Northwest	0.06	Clear	43.5	33.0	
29.914	56.0	41.0	34.0	7.0	.135	S. S. W.	0.31	Clear	55.0	31.5	
29.916	57.0	45.0	42.0	3.0	.249	N'd & E'd	0.70	Stormy	52.5	39.0	
29.666	55.0	37.0	34.0	3.0	.180	Calm	0.00	Stratus	37.0	34.0	.170
30.086	55.0	38.0	36.0	2.0	.207	N'd & W'd	0.52	Cumulus	45.0	36.0	.495
30.164	61.0	42.0	37.0	5.0	.181	Calm	0.00	Stratus	48.8	33.0	
29.714	61.0	55.0	55.0	0.0	.442	Calm	0.00	Cir. strat.	58.0	44.0	
29.984	61.0	44.5	42.0	2.5	.256	Westward	0.06	Stratus	57.5	38.0	
30.176	62.0	40.0	36.0	4.0	.184	S'd & W'd	0.06	Stratus	52.0	34.0	
29.764	61.0	43.0	43.0	0.0	.293	Calm	0.00	Stratus	43.0	39.0	.310
29.806	61.0	48.0	44.0	4.0	.259	N'd & W'd	0.26	Cumuli	50.5	43.0	
30.346	53.0	28.0				Calm	0.00	Clear	39.0	25.5	
30.238	50.0	27.0				Northeast	0.26	Snow	32.0	23.0	
30.256	47.0	26.0				Calm	0.00	Cum. str.	32.0	26.0	.666
30.436	45.0	27.0				Calm	0.00	Clear	37.0	19.5	
30.032	57.8	42.50	41.42	3.54	.247				50.51	36.83	2.241

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1841.

Days of the month.		Phases of the moon.	3 A. M.								
			Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.
				Attached.	Dry.	Wet.			Direction.	Force.	
			Inches.	°	°	°	°	Inches.		Lbs.	
Wed.	1		30.386	41.0	14.0				Calm	0.00	Fog
Thu.	2		30.345	44.0	22.0				Calm	0.00	Clear
Fri.	3		30.186	43.0	34.0				Calm	0.00	Rain
Sat.	4		29.556	50.0	45.0	42.0	3.0	.249	S'd & W'd	0.21	Clear
Sun.	5	☾	29.536	49.0	39.0	32.0	7.0	.129	N'd & W'd	0.57	Cumuli
Mon.	6		29.691	43.0	35.0				N'd & W'd	0.52	Cumuli
Tues.	7		29.902	43.0	34.0				N'd & W'd	0.26	Cumuli
Wed.	8		30.260	45.0	29.0				Calm	0.00	Clear
Thu.	9		30.016	47.0	42.0	37.0	5.0	.182	South	1.56	Cum. strat.
Fri.	10		29.971	54.0	41.0	38.0	3.0	.212	Calm	0.00	Cum. strat.
Sat.	11		29.436	60.0	49.0	46.0	3.0	.293	Calm	0.00	Light rain
Sun.	12	●	29.911	55.0	43.0	40.0	3.0	.230	Northwest	10.42	Clear
Mon.	13										
Tues.	14		29.781	54.0	47.0	44.0	3.0	.270	S'd & W'd	0.26	Rain
Wed.	15		29.956	53.0	40.0	38.0	2.0	.224	N'd & E'd	0.26	Cum. strat.
Thu.	16		29.870	55.0	43.0	42.0	1.0	.272	S'd & E'd	0.26	Rain
Fri.	17		29.236	55.0	41.0	40.0	1.0	.253	N'd & E'd	2 60	Rain
Sat.	18		29.598	41.0	21.5				N'd & W'd	5.21	Clear
Sun.	19		30.130	37.0	19.0				N'd & W'd	0.21	Clear
Mon.	20	☽	30.050	36.0	25.0				N'd & W'd	0.06	Clear
Tues.	21		29.936	41.0	33.0				North	1.04	Light rain
Wed.	22		30.532	39.0	22.0				Northwest	0.52	Cum. strat.
Thu.	23		30.545	42.0	25.0				N'd & E'd	0.52	Cum. strat.
Fri.	24		29.796	44.0	40.0				N'd & W'd	0.26	Cum. strat.
Sat.	25		30.188	40.0	30.5				N'd & E'd	0.26	Stratus
Sun.	26		30.174	39.0	28.0				N'd & W'd	0.26	Cumulus
Mon.	27		30.260	37.5	15.0				Calm	0.00	Cirrus
Tues.	28	○	30.198	40.0	31.0				Calm	0.00	Snow
Wed.	29		30.298	43.0	29.5				Calm	0.00	Cum. strat.
Thu.	30		30.240	41.0	33.0				Calm	0.00	Cum. strat.
Fri.	31		30 126	44.0	31.0				Calm	0.00	Cum. strat.
Mean			30.004	45.2	32.72	39.90 *	3.10	.231			

REMARKS.

December 17.—From the great violence of the storm, it is probable that a considerable part of the snow drifted out of the gauge.

December 23.—The amount of rain recorded is doubtless too small; the rain freezing as fell, and diminishing the receiving surface.

December 31.—At 3*h*. A. M., there was a bright lunar halo.

* A result caused by the small number of observations of the wet bulb.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1841—Continued.

9 A. M.

	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
hes.	°	°	°	°	°	Inches.		Lbs.	
492	39.5		21.0				Calm	0.00	Cum. stratus.
386	42.5	34.0	25.0				Calm	0.00	Stratus
954	45.0		43.0	41.0	2.0	.252	Calm	0.00	Rain.
486	51.0	61.0	46 0	42.0	4.0	.238	S'd & W'd	0.26	Clear.
.576	46.5		36.5	34.0	2 5	.186	N'd & W'd	1.56	Cum. stratus.
814	44.0	53.0	36.0	34.0	2.0	.192	Northwest	0.52	Cum. stratus.
086	44.0	50 0	37.0	33.0	4.0	.162	Northwest	0.36	Clear.
276	44.0	44.0	25.5				Calm	0.00	Stratus.
078	50.0		45.5	44.0	1.5	.287	S'd & W'd	0.36	Cum. stratus.
892	53.0		45.0	45.0	0.0	.314	Calm	0.00	Rain.
516	55.0	51.0	49.5	45.0	4.5	.264	N'd & W'd	1.04	Cum. stratus.
951	52.0	58.0	44.0	39.0	5.0	.199	N'd & W'd	0.30	Cum. stratus.
172	51.0		32.5	32.5	0.0	.203	Calm	0.00	Cir. stratus.
834	50.0		45.0	45.0	0.0	.314	N'd & W'd	0.26	Clear.
084	53.5		45.5	43.5	2.0	.277	North	0.06	Cum. stratus.
736	53.0		45.0	43.0	2.0	.271	Northeast	0.15	Light rain.
360	52.0		35.0	34 0	1.0	.203	Northeast	0.52	Snow.
.736	37.0	28.0	27.0				N'd & W'd	0.26	Clear.
.210	36.5	50.0	23.0				Calm	0.00	Cirrus.
.118	36.5	39.0	26.5				North	0.06	Cir. stratus.
.036	41.0		35.0	34.0	1.0	.203	North	0.06	Cir. stratus.
.668	39.0		20.0				N'd & W'd	0.52	Cum. stratus.
.438	41.0		28.5				Northeast	0.10	Rain.
.971	43.0	50.0	37.0	32.0	5.0	.148	N'd & W'd	0.26	Clear.
.222	40.5		30.0				Northwest	0.26	Stratus.
.312	38.0	50.0	24.0				North	1.04	Clear.
.320	38.5		24.5				S'd & W'd	0.13	Stratus.
.236	39.0		32.0				Calm	0.00	Cumuli.
.420	42.0		33.5				Calm	0.00	Cum. stratus.
.288	43.2		33.7	33.0	0.7	.199	East	0.06	Light rain.
.204	43.5		30.5				Calm	0.00	Cir. stratus.
.060	43.7	47.33	34.27	*38.47	2.19	.230			

REMARKS.

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* A result caused by the small number of observations of the wet bulb.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1841—Continued.

3 P. M.

Days of the month.	Phases of the moon.	Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.	
			Attached.	Sun.	Dry.	Wet.			Direction.	Force.
		Inches.	°	°	°	°	°	*Inch.*		*Lbs.*
Wed. 1		30.386	45.0	66.0	38.5				South	0.26
Thu. 2		30.314	44.0		39.1	39.0	0.1	.254	Calm	0.00
Fri. 3		29.572	47.0		51.0	50.0	1.0	.362	S'd & E'd	0.06
Sat. 4		29.446	52.0	58.0	53.0	50.0	3.0	.339	S'd & W'd	1.04
Sun. 5	☾	29.576	47.0		38.0	36.0	2.0	.208	N'd & W'd	2.08
Mon. 6		29.810	44.0		38.5	37.0	1.5	.221	N'd & W'd	0.52
Tues. 7		30.186	57.0	64.0	40.0	34 0	6.0	.146	N'd & W'd	0.75
Wed. 8		30.151	46.0		44.0	44.0	0.0	.304	S'd & E'd	0.06
Thu. 9		29.936	43 0	74.0	58.0	55.0	3.0	.408	South	0.26
Fri. 10		29.652	58.5		57.0	57.0	0.0	.473	South	0.52
Sat. 11		29.604	57.0	55.0	50 5				Northwest	10.42
Sun. 12	●	30.071	56.0	70.0	50.0	47.0	3.0	.303	Northwest	0.26
Mon. 13		29.986	54.0		48.0	45.0	3.0	.280	Calm	0.00
Tues. 14		29.870	57.0	77.0	55.0	48.0	7.0	.271	West	0.26
Wed. 15		30.036	57.5		52.0	48.0	4.0	.304	Calm	0.00
Thu. 16		29.516	55.0		46.0	46.0	0.0	.326	N'd & E'd	2.08
Fri. 17		29.390	48.5		30.0				Northwest	5.21
Sat. 18		29.775	40.0	54.0	31.5				Northwest	0.15
Sun. 19		30.114	38.0		37.0				Calm	0.00
Mon. 20	☽	30.004	45.0	64.0	40.5	40.0	0.5	.259	Calm	0.00
Tues. 21		30.146	43.0		33.5	32.0	1.5	.184	North	0.15
Wed. 22		30.666	40.0		24.0				N'd & E'd	0.26
Thu. 23		30.028	40.0		34.0	33.0	1.0	.196	Calm	0.00
Fri. 24		30.071	44.0	60.0	36.0	34.0	2.0	.192	N'd & W'd	0.26
Sat. 25		30.168	40.5		32.5	32.0	0.5	.194	N'd & W'd	0.26
Sun. 26		30.286	39.0	42.0	29.0				N'd & W'd	0.26
Mon. 27		30.220	38.0	46.0	34.5				Southeast	0.26
Tues. 28	○	30.161	40.0		39.0	38.0	1.0	.235	Calm	0.00
Wed. 29		30.424	45.0		41.0	37.0	4.0	.192	Calm	0.00
Thu. 30		30.136	45.5		36.5	36.0	0.5	224	Calm	0.00
Fri. 31		30.094	47.5	67.0	41.0	39.0	2.0	.233	East	0.06
Mean		29.993	46.9	61.31	41.24	*41.61	2.03	.261		

REMARKS.

* A result caused by the small number of observations of the wet bulb.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

DECEMBER, 1841—Continued.

9 P. M.										Registering thermom'rs.		Rain or melted snow.
Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.				
	Attached.	Dry.	Wet.			Direction.	Force.			Maximum.	Minimum.	
Inches.	°	°	°	°	*In's.*		*Lbs.*			°	°	*Inches.*
30.361	43.0	31.0				Calm	0.00	Cum.strat.		38.5	13.5	
30.280	44.0	34.0				Calm	0.00	Cum.strat.		41.5	19.0	
29.528	49.5	50.0	48.0	2.0	.327	South	0.52	Cir. strat.		54.0	34.0	1.420
29.554	53.0	41.0	38.0	3.0	.213	N'd & W'd	0.37	Clear		53.5	44.0	.550
29.671	44.0	35.0	30.0	5.0	.136	S'd & W'd	0.52	Clear		39.0	33.0	
29.884	44.0	35.0	32.0	3.0	.169	North	0.06	Cumuli		39.5	31.0	
30.224	48.0	31.0				South	0.06	Clear		40 0	27.0	
30.130	49.5	36.0	32.0	4.0	.158	Calm	0.00	Stratus		44.0	22.5	
29 965	55.0	45.0	40.0	5.0	.208	Calm	0.00	Clear		58.5	41.5	
29.506	59.0	54.0	50.0	4.0	.329	South	0.36	Stratus		57.5	41.0	.132
29.842	57.5	47.5	46.0	1.0	.309	S'd & W'd	1.04	Cum. strat.		51.0	46.0	
										50.0	43.0	
29.881	56.0	44.5	44.0	0.5	.298	S'd & E'd	0.06	Rain		48.5		.340
29.816	56.0	44.5	41.0	3.5	.235	Calm	0.00	Clear		55 0	40.0	
29.986	56 0	44.0	42.0	2.0	.261	S'd & E'd	0.21	Rain		53.0	40.0	
29.436	55.5	45.0	44.0	1.0	.293	N'd & E'd	2.60	Rain		47.5	43.0	.185
29.566	45.0	23.5				N'd & W'd	6.25	Cum. strat.		41.0	23.0	.595
30.058	40.5	24.5				Northwest	0.52	Clear		31.5	21.0	
30.186	42.0	28.0				Northwest	0.06	Clear		38.0	19.0	
29.986	43.0	35.0	33.0	2.0	.185	Calm	0.00	Cum. strat.		41.0	21.0	
30.436	43.0	30.0				Northeast	0.52	Cum. strat.		34.0	29.0	.050
30.681	42.0	25.5				Northeast	0.26	Stratus		25.5	20.5	
29.842	46.0	50.5	48.0	2.5	.321	S'd & W'd	0.52	Rain		53.5	25.0	1.360
30.184	43.0	31.0				Northeast	0.52	Cir. strat.		42.0	31.0	.123
30.171	39.0	29.0				Northwest	0.15	Cum.		32 5	28.5	
30.286	38.0	23.0				Northwest	0.26	Clear		29.0	18.0	
30.220	38.0	31.0				Calm	0 00	Stratus		34.5	15.0	
30.236	41.0	31.5				Calm	0.00	Clear		39.0	28.5	.105
30.436	49.0	39.0	32.0	7.0	.127	Calm	0.00	Stratus		42.0	29.5	
30.104	47.0	34.0	32.0	2.0	.177	Calm	0.00	Cum. strat.		36.5	33.0	.127
30.158	45.5	34.5	32.5	2.0	.181	S. S. W.	0.06	Clear		44.0	29.5	
30 020	43.7	36.25	*39.09	3.06	.231					43.07	29.67	4.987

REMARKS.

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* A result caused by the small number of observations of the wet bulb.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1842.

Days of the month.	Phases of the moon.	3 A. M.							
			Thermometers.					Wind.	
		Barometer.	Attached.	Dry.	Wet.	Difference of wet and dry.	Force of vapor.	Direction.	Force.
		Inches.	°	°	°	°	°		*Lbs.*
Sat. 1		30.218	45.0	34.7	32.5	2.2	.178	W. S. W.	0.26
Sun. 2		29.898	44.0	34.5	32.5	2.0	.181	S. S. W.	0.06
Mon. 3	☾	29.768	46.0	32.0	30.0	2.0	.166	W. by N.	0.56
Tues. 4		29.862	42.0	26.0				S. W. by S.	0.26
Wed. 5		30.212	45.0	28.5				W. N. W.	0.26
Thu. 6		30.540	41.0	22.0				Calm	0.00
Fri. 7		29.871	41.0	38.0	38.0	0.0	.246	E. by S.	0.26
Sat. 8		30.052	46.0	35.0	33.0	2.0	.186	Southwest	0.13
Sun. 9		29.988	50.0	37.5	36.5	1.0	.223	S. by W.	0.06
Mon. 10		30.276	54.0	40.0	39.5	0.5	.254	E. N. E.	0.13
Tues. 11	●	30.246	49.0	35.0	34.0	1.0	.203	Calm	0.00
Wed. 12		29.994	45.0	31.0				W. by S.	0 26
Thu. 13		29.941	46.0	36.0	34.0	2.0	.192	N. N. W.	0.26
Fri. 14		30.240	44.0	29.0				Northwest	0.13
Sat. 15		29.828	45.0	36.0	35.0	1.0	.211	S. S. W.	0.26
Sun. 16		29.918	43.0	30.0				N. by E.	0.26
Mon. 17		30.066	44.0	26.0				Calm	0 00
Tues. 18		30.054	45.0	32.0				S. S. W.	0.13
Wed. 19	☽	30.100	52.5	31.0				Calm	0.00
Thu. 20		29.936	51.0	39.0	36.0	3.0	.196	Calm	0.00
Fri. 21		29.506	56.0	49.0	48.0	1.0	.338	S. W. by S.	0.39
Sat. 22		29.962	51.0	32.0				S. S. W.	0.39
Sun. 23		30.246	45.0	28.0				Calm	0.00
Mon. 24		30.630	38.5	16.0				Calm	0.00
Tues. 25		30.341	38.0	21.5				Calm	0.00
Wed. 26	○	29.900	40.0	34.5				Southwest	0.06
Thu. 27		29.674	45.0	36.5	35.0	1.5	.205	W. by N.	0.78
Fri. 28		30.380	42.0	25.0				Calm	0.00
Sat. 29		30.052	45.0	42.0	40.0	2.0	.241	S. S. W.	0.13
Sun. 30		29.808	51.0	49.0	46.0	3.0	.292	S.W. by W.	1.04
Mon. 31		30.001	54.0	40.0	37.0	3.0	.204	Calm	0.00
Mean		30.048	45.93	33.11	*36 69	1.70	.220		

REMARKS.

January 1.—At 6*h*. P. M., zodiacal light visible; altitude of pyramid 40°; base at hor 18°; inclination 60°. The planet Mars nearly in its centre.

January 7.—The quantity of rain or melted snow noted on the 6th is that which is tween 3*h*. P. M. of the 6th and 9*h*. A. M. of the 7th.

January 15.—An aurora borealis visible in the evening. For an account of it, see the netical observations, January 16, 1842.

* These results are owing to the small number of observations of the wet bulb.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1842—Continued.

9 A. M.

Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
nches.	°	°	°	°	°	Inch.		Lbs.	
0.264	44.7	48.0	32 0				S. W. by S.	0.06	Clear.
9.816	44.0	43.0	34.5	32.5	2.0	.181	S. S. W.	0.52	Cir. stratus.
0.136	43 0	34.0	24.0				Northwest	0.52	Cum. stratus.
9 822	41.5		34.5	33.0	1.5	.191	S. W. by S.	0.52	Cir. stratus.
0.468	42.0	45.0	24.5				Northwest	0.78	Cir. stratus.
0.492	41.0	32.0	26.5				East	0.13	Cum. stratus.
9.802	44.5		42.0	41.5	0.5	.273	Calm	0.00	Cum. stratus.
0.208	45.5		36.5	35.0	1.5	.207	E. S. E.	0.13	Cum. stratus.
0.126	50.0		42.0	42.0	0.0	.283	W. S. W.	0.13	Stratus.
0.248	51.5		36.5	36.5	0.0	.234	E. N. E.	0.78	Rain.
0 216	49.0		33.5	33.5	0.0	.210	Northeast	0.13	Snow.
0.002	46.0		35.0	32 5	2.5	.175	S. S. W.	0.13	Clear.
0.238	45.0	47.0	31.5				Northwest	2.60	Clear.
0.064	43.5		36.5	32.5	4.0	.158	Southwest	0.76	Cir. stratus.
0.011	45.0	49.0	37.0	36.5	0.5	.228	N. W. by W.	0.52	Cum. stratus.
9.882	42.7		33.0				S. W. by S.	0.13	Cum. stratus.
0.160	44.0	49.0	30.1	27.0	3.1	.136	S. S. W.	0.13	Clear.
0.126	45.0	57.0	32.0				Calm	0.00	Clear.
0.090	47.5	39.0	31.5				Calm	0.00	Cir. stratus.
9.836	56.0	60.0	46.0	45.0	1.0	.303	Calm	0.00	Clear.
9.614	53.0		41.5	39.0	2.5	.227	S. S. W.	0.26	Cum. stratus.
0.018	49.0	49.0	31.5				S. S. W.	0.26	Clear.
0.500	43.0	45.0	23.0				W. N. W.	0.26	Cir. stratus.
0.682	38.0	41.5	18.5				West	0.13	Clear.
0.224	37.5	44.0	28.0				Southwest	0.13	Cir. stratus.
9.896	40.0	40.0	31.5				Calm	0.00	Cir. stratus.
0.000	41.5	48.0	35.5	32.5	3.0	.169	Northwest	2.91	Cumuli.
0.410	41.5	42.0	25.5				S. S. W.	0.06	Cirrus.
0.002	45.5	49 0	45.0	40.0	5.0	.207	Southwest	0.26	Cum. stratus.
0.070	50.0	57.0	45.5	39.0	6.5	.181	West	0.32	Clear.
9.802	52.0		47.5	47.5	0.0	.343	Southwest	0.26	Rain.
0.104	45.04	45.92	33.94	31.27	1.98	.218			

REMARKS—Continued.

January 24.—At 6*h*. 30*m*. P. M., a halo was seen forming around the moon, which con-ued extending until midnight, when its greatest diameter measured 48° 24′; the bright star rius touching the inner edge of the southern part of the ring. At 11*h*. 40*m*., it assumed the rm of an ellipse, in a northwest and southeast direction, becoming quite faint, and finally dis-pearing about 3 o'clock.

January 27.—At 2*h*. 30*m*. A. M., heavy squalls, veering from west to southwest; force, 61 pounds.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1842—Continued.

3 P. M.

Days of the month.		Phases of the moon.	Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.	
				Attached.	Sun.	Dry.	Wet.			Direction.	Force.
			Inches.	°	°	°	°	°	*Inch.*		*Lbs.*
Sat.	1		30.177	48.0	68.0	43.0				Southwest	0.56
Sun.	2		29.644	51.0	48.0	48.0	44.0	4.0	.259	S. W. by S.	0.39
Mon.	3	☾	30.130	44.5	55.0	28.5				W. S. W.	0.06
Tues.	4		29.768	45.0	66.0	46.0	42.0	4.0	.233	S W. by S.	0.13
Wed.	5		30.461	47.0	62.0	33 0				W. by N.	0.06
Thu.	6		30.261	44.0		36.0	36.0	0.0	.230	S. W. by S.	0.13
Fri.	7		29.888	48.5		40.0	40.0	0.0	.261	W. by S.	0.06
Sat.	8		30.068	53.0		38.5	37.0	1.5	.221	East	0.13
Sun.	9		30.172	55 0	55.0	50.0	49.0	1.0	.350	W. by N.	0.13
Mon.	10		30.200	51.0		37.0	37.0	0.0	.238	N. N. W.	0.26
Tues.	11	●	30.042	48 5		39.5	37.0	2.5	.210	Calm	0.00
Wed.	12		29.850	48.0	51.0	44.0	40.0	4.0	.219	Southwest	0.13
Thu.	13		30.286	47.0	58.0	36.0	32.5	3.5	.163	Northwest	0.13
Fri.	14		29.802	46.0		45.0	42.5	2.5	.260	Southwest	1.17
Sat.	15		29.996	47.0	45.0	39.0	37.0	2.0	.216	W. N. W.	0.26
Sun.	16		29.900	47.0	52.0	43.0	38.0	5.0	.189	W. N. W.	0.26
Mon.	17		30.058	45.0	55.0	45.5	42.5	3.0	.254	Southwest	0.78
Tues.	18		30.086	49.0	78.0	51.0	47.0	4.0	.291	Calm	0.00
Wed.	19	☽	29.986	52.0	70.0	55.0	50.0	5.0	.317	Calm	0.00
Thu.	20		29.696	59.5		63.0	61.0	2.0	.519	S. S. W.	0.39
Fri.	21		29.600	56.0	52.0	45.5	40.0	5.5	.203	S. S. W.	0.26
Sat.	22		29 996	51.5	50.0	49.0	32.5	6.5	.230	S. S. W.	0.26
Sun.	23		30.476	42.0	43.0	29.0				Northwest	0.52
Mon.	24		30.558	42.0	40.0	28.5				S. S. W.	0.52
Tues.	25		30.124	43.0		38.0	37.0	1.0	.227	Southwest	0.12
Wed.	26	○	29.736	45.0		45.0	43.0	2.0	.271	South	0.13
Thu.	27		30.141	43.0	46.0	40.0	33.0	7.0	.127	N.W. by W.	1.56
Fri.	28		30.186	45.0	66.0	47.5	42.0	5.5	.220	S. S. W.	0.17
Sat.	29		29.822	50.0	74.0	57.0	54.0	3 0	.394	Southwest	0.13
Sun.	30		30.046	53.5	78.0	54.5	51.0	3 5	.346	W. S. W.	0.13
Mon.	31		29.672	54.5		54.0	52.0	2.0	.378	Southwest	0.26
Mean			30.049	48.43	57.71	43.51	41.89	3.08	.262		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY, 1842—Continued.

	9 P. M.								Registering thermom'rs.		Rain or melted snow.
	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.	Maximum.	Minimum.	
	Attached.	Dry.	Wet.			Direction.	Force.				
hes.	°	°	°	°	*Inch.*		*Lbs.*		°	°	*Inches.*
046	48.0	33.0	32.0	1.0	.189	Southwest	0.06	Clear	49.0	30.5	
636	47.5	43.5	40.0	3 5	.225	Calm	0.06	Cir. strat.	55 0	30.0	
166	46.0	26.5				South	0.26	Stratus	40.0	22.0	
022	47.0	40.0	35.0	5.0	.165	W. by N.	0.26	Clear	46.5	23.5	
536	45.0	26.0				Calm	0.00	Clear	34.0	22.0	
036	42.0	35.0	35.0	0.0	.222	N. by E.	0.06	Rain	45.0	30.0	0.822
986	47.0	37.0	37.0	0.0	.238	Southwest	0.06	Rain	56.0	35.0	
052	49.5	35.0	34.5	0.5	.212	Calm	0.00	Stratus	39.0	34.0	0.026
280	55.0	46.0	40.0	6.0	.196	E. by S.	0.13	Stratus	56.0	36.0	
267	50 0	35.0	34.0	1.0	.203	W. by N.	0.06	Stratus	62.0	35.0	
032	48.0	33.0	32.0	1.0	.188	Southwest	0.06	Stratus	48.0	33.0	0.675
860	47.0	37.0	36.0	1.0	.219	N. N. W.	0.26	Stratus	45.0	30.0	0.020
291	45.0	29.5				Calm	0.00	Clear	50 0	30.0	
800	46.0	41.5	39.0	2.5	.227	S.W. by S.	1.56	Stratus	46.0	29.0	
036	46.0	32.0	31.5	0.5	.190	N. N. W.	0.26	Clear	40.0	31.5	
999	46.5	28.5				Northwest	0.06	Clear	48.0	30.0	
036	46.0	37.5	35.0	2.5	.194	S. S. W.	0.06	Clear	46.0	25.0	
106	49.0	41.0	38.0	3.0	.212	Calm	0.00	Clear	53 5	29.0	
984	55.0	42.0	40.0	2.0	.242	Calm	0.00	Clear	60.0	40.0	
586	57.0	54.0	51.5	2.5	.366	Southwest	0.52	Cumulus	63.0	35.0	0.014
836	52.8	37.0	34.5	2.5	.190	S. S. W.	0.13	Clear	50.0	32.5	0.057
136	49.0	32.0				S. S. W.	0.13	Clear	40.0	28.0	
576	42.5	20.5				West	0.06	Clear	29.0	18.0	
482	40.0	23.0				Calm	0.00	Cum strat.	29.5	12.0	
036	40.0	35.0	32.0	3.0	.169	Southwest	0.06	Stratus	38.0	21.0	
598	43.0	38.0	37.0	1.0	.227	Southwest	0.13	Cir. strat.	46.0	30.0	
350	44.0	32.5				Calm	0.00	Cum. strat.	40.0	32.0	
164	44.0	38.0	32.0	6.0	.138	S. S. W.	0.06	Clear	48.0	21.0	
728	50.5	50.0	49.0	1.0	.350	S. S. W.	0.26	Clear	56.0	36.0	
044	55.0	41.0	37.0	4.0	.192	Calm	0.00	Stratus	54.5	40.0	0.050
884	54.5	47.5	41.0	6.5	.201	Southwest	10.42	Cum. strat.	55.0	36.0	0.070
051	47.65	36.37	37.09 *	2.44	.211				47.35	29.58	1.734

REMARKS.

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* These results are owing to the small number of observations of the wet bulb.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1842.

Days of the month.		Phases of the moon.	3 A. M.								
			Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.
				Attached.	Dry.	Wet.			Direction.	Force.	
			Inches.	°	°	°	°	Inches.		Lbs.	
Tues.	1		29.992	51.0	36.0	32.0	4.0	.158	W. by S.	0.13	Cir. str.
Wed.	2	☾	30 356	49.0	27.0	25.0	2.0	.135	Calm	0.00	Clear
Thu.	3		29.972	55.0	46.5	46.5	0.0	.331	Calm	0.00	Rain
Fri.	4		29.658	65.0	66.0	64.0	2.0	.575	South	0.52	Cum. str.
Sat.	5		29.470	65.0	55.0	55.0	0.0	.442	W. S. W.	0.52	Rain
Sun.	6		30.256	56.0	32.0	30.5	1.5	.174	Calm	0.00	Clear
Mon.	7		29.850	56.5	44.0	40.0	4.0	.219	Southwest	0.39	Cum.
Tues.	8		29.695	53.5	38.0	35.0	3.0	.188	Northwest	0.13	Cum. str.
Wed.	9		30.288	39.0	18 0	16.0	2.0	.092	Northwest	0.52	Clear
Thu.	10	●	30.040	38.0	31.0	28.5	2.5	.151	W. S. W.	0.26	Clear
Fri.	11		30.195	43.0	32 5	32.0	0.5	.194	Southwest	0.06	Cum.
Sat.	12		30.038	48.0	48.0	47.0	1.0	.326	Calm	0.00	Snow
Sun.	13		30.038	52.0	46.0	46.0	0.0	.326	N. N. E.	0.26	Rain
Mon.	14		29.736	54.0	45.5	44.0	1.5	.287	W. S. W.	0.06	Cum. str.
Tues.	15		30.234	43.5	22.0	20.5	1.5	.117	W. by N.	1.56	Clear
Wed.	16		29.901	44.0	31.5	31.0	1.5	.177	South	0.06	Snow
Thu.	17		29.642	36.0	18 0	16.5	1.5	.099	Southwest	10.42	Clear
Fri.	18	☽	30.236	34.0	18.0	17.5	0.5	.113	Calm	0.00	Stratus
Sat.	19		29.734	39.5	47.0	47.0	0.0	.337	S.W.by W.	0.52	Rain
Sun.	20		30.396	42.5	25.0	20.0	5.0	.078	Northwest	0.52	Clear
Mon.	21		30.254	40.0	27.0	20.0	7.0	.058	Southwest	0.26	Clear
Tues.	22		30.086	40.0	28.0	22.0	1.0	.129	Calm	0.00	Clear
Wed.	23		30.220	40.0	24.5	23.0	1.5	.129	Calm	0.00	Clear
Thu.	24	○	30.142	42.0	31 5	29.5	2.0	.162	Calm	0.00	Stratus
Fri.	25		30.174	45.5	35 0	31.5	4.0	.156	Calm	0.00	Stratus
Sat.	26		30.176	48.0	42.0	42.0	0.0	.283	Northeast	0.13	Cir. str.
Sun.	27		29.956	51.0	42.0	42.0	0.0	.283	E. N. E.	0.06	Stratus
Mon.	28		30.152	50.0	34.0	32.0	2.0	.179	Calm	0.00	Clear
Mean			30.032	47.18	35.28	33.43	1.85	.212			

REMARKS.

February 1.—At 7*h*. P. M., base of pyramid of zodiacal light bore W. S. W.; alt. 40°; breadth of the base 18° ; inclination to the horizon 75°.

February 4.—At 7*h*. P. M., zodiacal light very brilliant; base of pyramid bearing west south ; breadth 15° ; altitude 50° ; inclination to the horizon 75°. Lightning in the north.

February 5.—Zodiacal light same as yesterday.

February 6.—Zodiacal light same as yesterday. At 9*h*. P. M., a diffused auroral arch extending from northeast by north to northwest by west. At 9*h*. 10*m*., a brilliant arch; alt. 8° ; highest part of arch north by east. At 9*h*. 25*m*., eastern portion fading, western str advancing westward. At 9*h*. 35*m*., visible only as a faint light.

February 8.—At meridian, a heavy squall from the west, attended with snow ; the wind continued violent through the day.

FEBRUARY, 1842—Continued.

9 A. M.

Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.			Direction.	Force.	
Inches.	°	°	°	°	°	*Inches.*			
30.310	50.5	55.0	36.5	33.0	3.5	.167	West	0.13	Cir. stratus.
30.402	49.5	49.5	32.5	28 0	4.5	.127	Southwest	0.18	Cirrus.
29.874	52.5		57.0	57.0	0.0	.473	Southwest	0.26	Rain.
29.736	62.0		61.5	61.5	0.0	.550	W. S. W.	0.26	Rain.
29.802	59.5	48.0	47.0	40.5	6.5	.196	W. N. W.	5.21	Cum.
30.230	56.0	56.0	33.5	32.0	1.5	.184	W. by S.	0.06	Cir. stratus.
29.761	56.0		48.5	45.0	3.5	.275	Southwest	0.13	Cum. stratus.
29.715	53.0	58.0	35.5	33.0	2.5	.179	West	0.13	Cum.
30.380	37.5	41.0	19.5	18.5	1.0	.112	W. S. W.	0.26	Cum.
30.136	39.0	57.0	32.0	27.0	5.0	.116	W. S. W.	0.13	Cirrus.
30.250	44.0	45.0	38.5	38.0	0.5	.240	Calm	0.00	Cum. stratus.
30.022	50.0	53.0	50.0	49.5	0.5	.361	Southwest	0.06	Cum. stratus.
29.912	52.5		42.0	42.0	0.0	.283	N. E. by N.	0.26	Rain.
29.768	53.5	66.0	48.0	43.0	5.0	.237	West	0.26	Cum.
30.374	43.0	49.5	25.0	24.0	1.0	.139	W. by S.	0.26	Clear.
29.546	44.0		32.5	32.5	0.0	.203	N. N. W.	0.13	Rain.
29.902	32.0	41.0	15.5	14.0	1.5	.089	W. N. W.	5.21	Clear.
30.255	34.0	52.0	34.5	32.0	2.5	.174	Southwest	0.13	Cir. stratus.
29.700	41.5	53.0	45.0	45.0	0.0	.314	W. S. W.	0.13	Cum. stratus.
30.508	42.0	49.0	24.0	23.0	1.0	.134	Northeast	0.26	Clear.
30.286	39.5	56.0	25.0	24.0	1.0	.139	Calm	0.26	Stratus.
30.084	40.5	47.0	29.0	27.0	2.0	.147	W. by S.	0.06	Stratus.
30.278	39.5	51.5	28.0	27.0	1.0	.157	West	0.13	Cir. stratus.
30.160	41.5	37.5	35.0	33.0	2.0	.184	West	0.06	Stratus.
30.332	45.5	54.5	39.5	37.0	2.5	.210	Northeast	0.26	Stratus.
30.118	48.0		40.5	40.5	0.0	.269	Northwest	0.52	Rain.
30.038	50.5	59.0	43.5	41.5	2.0	.256	Northwest	0.13	Cum.
30.224	50.0	69.0	36.5	30.5	6.0	.128	Calm	0.00	Cir. stratus.
30.075	46.68	52.16	36.98	34.94	2.03	.216			

REMARKS—Continued.

February 9.—At 7*h*. P. M., zodiacal light very brilliant; base of pyramid bearing west by south; altitude 45°; inclination 77°.

February 15.—From 6*h*. 15*m*. to 8*h*. P. M., observed a perfect lunar halo.

February 16.—At 10*h*. P. M., a heavy squall; force, 15.62 inches.

February 22.—From 2*h*. 30*m*. to 3*h*. P. M., a slight flurry of snow.

February 24.—At 9*h*. A. M., the sun was faintly visible through the stratus.

FEBRUARY, 1842—Continued.

Days of the month.	Phases of the moon.	3 P. M.								
		Barometer.	Thermometers.				Difference of wet and dry.	Force of vapor.	Wind.	
			Attached.	Sun.	Dry.	Wet.			Direction.	Force.
		Inches.	°	°	°	°	°	*Inch.*		*Lbs.*
Tues. 1		30.338	51.0	56.0	45.5	37.0	8.5	.141	West	0.15
Wed. 2	☾	30.196	52.0	64.0	50.0	44.5	5.5	.246	Southwest	0.52
Thu. 3		29.756	58.0		68.0	65.0	3.0	.583	Southwest	0.26
Fri. 4		29.592	67.5	82.0	70.0	66.0	4.0	.594	S. S. W.	0.26
Sat. 5		30.060	61.0	68.0	48.5	40.0	8.5	.166	Northwest	0.52
Sun. 6		30.014	60.0	74.0	57.0	50.0	7.0	.293	Southwest	1.40
Mon. 7		29.660	57.5		50.0	48 0	2.0	.327	Calm	0 00
Tues. 8		29.802	47.0	48 0	29.0	24.0	5.0	.099	W. N. W.	15 62
Wed. 9		30.162	39.0	52.0	30.0	28.0	2.0	.153	W. S. W.	0.26
Thu. 10	●	30.106	43.0	70.0	50.0	48.0	2.0	.327	W. S. W.	0.26
Fri. 11		30.176	48.0		56.5	51.0	5.5	.323	Calm	0.00
Sat. 12		30.044	54.0		60.0	54.0	6.0	.361	S. S. W.	0.06
Sun. 13		29.750	53 0		50.5	49.0	1.5	.344	N.W.by W.	0.13
Mon. 14		29.730	53.0	68.0	46.0	40.0	6.0	.197	W. by N.	2.60
Tues. 15		30.254	44.0	56.0	38.5	35.0	3.5	.182	W. S. W.	0.13
Wed. 16		29.280	44.0		32.0	32.0	0.0	.199	West	0.26
Thu. 17		30.046	32.5	54.0	25.0	22.5	2.5	.117	W. N. W.	0.52
Fri. 18	☽	30.078	37.0		43.5	40.0	3.5	.244	Southwest	0.52
Sat. 19		29.946	44.0	56.0	40.0	34.0	6.0	.146	W. N. W.	1.56
Sun. 20		30.392	41.0	32.0	32.0	30.0	2.0	.166	Southwest	0.26
Mon. 21		30.186	42.0	66.0	38.0	32.0	6.0	.138	West	0.06
Tues. 22		30.026	43.0		38.5	35.0	3.5	.182	W. S. W.	0.26
Wed. 23		30.186	42.0	62.0	41.0	34.0	7.0	.134	W. S. W.	0.13
Thu. 24	○	30.122	44.5	70.0	50.5	45.0	5.5	.251	Southwest	0.06
Fri. 25		30.304	49.5	50.0	50.0	43.0	7.0	.213	Northeast	0.26
Sat. 26		30.000	50.0	76.0	50.5	49.5	1.0	.356	Southwest	0.06
Sun. 27		30.060	52.0	58.0	51.5	46.0	5.5	.264	Northwest	0.52
Mon. 28		30.182	53.5	55.5	53.5	49.0	4.5	.310	Southwest	0.06
Mean		30.016	46.68	60.87	46.26	41.86	4.40	.252		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY, 1842—Continued.

9 P. M.									Registering thermometers.		Rain or melted snow.
Barometer.	Thermometers.			Difference of wet and dry.	Force of vapor.	Wind.		Weather.	Maximum.	Minimum.	
	Attached.	Dry.	Wet.			Direction.	Force.				
Inches.	°	°	°	°	Inch.				°	°	Inches.
30.370	55.0	32.0	30.0	2.0	.166	West	0.06	Clear	46.0	30.0	
30.136	54.0	46.0	42.0	4.0	.237	Southwest	0.06	Cum.	54.0	25.0	
29.758	63.0	66.0	64.0	2.0	.575	S. S. W.	0.26	Stratus	68.0	45.0	0.188
29.486	67.0	64.0	57.0	7.0	.396	Southwest	0.26	Cir. stratus	70.0	61.5	0.450
30.176	60.0	39 0	34.0	5.0	.157	Northwest	0.13	Clear	64.0	39.0	0.070
29.960	58.0	46.0	43.0	3.0	.259	S. S. W.	0.52	Clear	57.0	29 0	
29.636	58.0	46.0	44.0	2.0	.282	Southwest		Stratus	50.5	39.0	0.150
30.162	44.0	21.5	18.0	3.5	.085	Northwest	0.06	Cum.	43.0	18.0	
30.058	39.0	31.0	27.0	4.0	.126	W. S. W.	15.40	Clear	31.5	16.0	
30.166	43.0	36.5	32.5	4.0	.162	W. S. W.	0.06	Cirrus	50.0	29.0	
30.120	49.0	50.0	48.0	2.0	.327	S. S. W.	0.13	Stratus	58.0	32.0	
30.116	52.5	50.0	48.0	2.0	.327	S. S. W.	0.13	Stratus	60.0	48.0	
29.776	57.0	47.5	46.0	1.5	.329	W S. W.	0 06	Stratus	50.5	42.0	1.262
30.100	47.0	27.0	23.0	4.0	.103	W. N. W.	1.92	Clear	50.5	25.0	
30.200	45.0	31.0	29.0	2.0	.159	Southwest	0.13	Stratus	38.5	20.0	
29.366	43.0	31.0	31.0	0.0	.192	West	2.60	Stratus	34.0	28.0	0.600
30.152	34.0	18.5	16.5	2-0	.094	West	0.06	Clear	27 5	14.0	
29.876	39.0	43.0	38.0	5.0	.190	South	0.06	Cum.	48 0	17.0	
30.244	45.0	32.0	27.0	5.0	.116	West	0.52	Clear	50.0	31.0	0.810
30.350	40.0	23.0	20.0	3.0	.099	Southwest	0.26	Stratus	32.0	21.0	
30.136	42.0	29.0	26.0	3.0	.131	Calm	0.00	Clear	38.0	20.0	
30.152	41.5	31.5	29.0	2.5	.154	N.W.by W.	0.13	Clear	41.0	23.0	
30.129	42.0	33.0	31.0	2.0	.172	Calm	0 00	Clear	42.0	22.0	
30.142	46 0	39.5	35.0	4.5	.176	Northeast	0.13	Stratus	51.0	31.0	
30.298	50.0	44.0	42.0	2.0	.260	Northeast	0.52	Stratus	50.0	33.5	
29.980	51.0	43.0	42.0	1.0	.272	Calm	0.00	Cum.	53.0	40.5	0.359
30.126	53.0	41.5	38.0	3.5	.206	Calm	0.00	Clear	51.5	40.5	
30 174	52.0	45.0	45.0	0.0	.314	Calm	0.00	Rain	53.5	31.5	
30.048	48.92	38.84	35.93	2.91	.217				48.68	30.09	3.889

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1842.

Days of the month.	Phases of the moon.	3 A. M.								
		Barometer.	Thermometers.				Force of vapor.	Wind.		W
			Attached.	Dry.	Wet.	Dew point.		Direction.	Force.	
		Inches.	°	°	°	°	Inches.		Lbs.	
Tues. 1		30.198	55.0	45.0	42.0		.249	Calm	0.00	Cir
Wed. 2		29.852	58.5	53.0	53.0	53.0	.414	Southwest	0.13	Stra
Thu. 3	☾	29.855	62.0	56.0	51.0		.330	Southwest	0.06	Stra
Fri. 4		29.874	65.5	59.0	55.0		.397	Southwest	0.26	Cir
Sat. 5		29.684	70.0	61.0	57.0	57.5	.429	S. W. by S.	0.26	Cu
Sun. 6		30.080	67.5	48.0	46.0		.304	Northeast	0.26	Stra
Mon. 7		30.018	66.0	48.0	47.0		.326	Calm	0.00	Cir
Tues. 8		30.328	58.5	36.5	33.0	27.0	.166	W. N. W.	0.26	Stra
Wed. 9		30.316	54.0	41.0	38.0	37.0	.212	Southeast	0.26	Cu
Thu. 10		29.798	59.5	53.5	50.5	53.5	.346	Calm	0.00	Ra
Fri. 11		29.732	61.0	55.5	54.5	55.5	.424	S. W. by S.	0.52	R
Sat. 12	●	30.450	50.0	30.0	27.0		.137	Northwest	1.56	[illegible]
Sun. 13		30.360	53.0	32.5	31.0	29.5	.175	South	0.13	[illegible]
Mon. 14		30.244	52.0	42.5	40.0	42.5	.236	S. S. W.	0.26	Ra
Tues. 15		30.256	50.0	33.0	32.0		.188	S. S. W.	0.13	Clea
Wed. 16		30.381	51.0	33.0	31.0	29.5	.172	Calm	0.00	Clea
Thu. 17		30.150	51.0	44.0	40.0	32.0	.218	S. by W.	0.13	Stra
Fri. 18		30.152	56.0	56.5	49.0	31.0	.276	Calm	0.06	Cir
Sat. 19	☽	30.146	62.0	52.0	48.0	52.0	.303	N. N. W.	0.26	Rain
Sun. 20		30.040	69.5	60.5	57.0	49.0	.434	Calm	0.00	Stra
Mon. 21		30.036	71.0	55.0	49.0	41.0	.294	Northeast	0.52	Stra
Tues. 22		29.972	62.0	38.0	37.0	38.0	.227	Southeast	0.06	Rain
Wed. 23		30.156	55.0	40.5	38.0	40.5	.218	N. N. W.	0.06	Ra
Thu. 24		30.278	56.0	39.0	37.0	36.0	.215	S. S. E.	0.13	Strat
Fri. 25		29.972	58.5	40.0	38.0	40.0	.221	East	0.13	Rain
Sat. 26	○	29.870	53.0	41.5	39.0	40.0	.227	N. N. W.	0.06	Clear
Sun. 27		30.370	52.0	36.0	34.0	31.0	.191	West	0.06	Clear
Mon. 28		30.081	60.0	53.5	51.0	37.0	.358	West	6.24	Clear
Tues. 29		30.440	55.5	34.0	30.5		.149	Calm	0.00	Cirrus
Wed. 30		29.996	55.0	48.0	44.0	35.0	.259	Southwest	0.13	Stratus
Thu. 31		29.966	60.0	53.0	52.0	42.0	.389	W. by N.	0.52	Cum
Mean		30.098	58.23	45.77	43.05	40.41	.274			

REMARKS.

March 2.—Raining from 4*h.* 15*m.* A. M. to 8*h.* 30*m.* A. M. At 7*h.* 30*m.* P. M., light in the northwest.

March 3.—At 7*h.* 20*m.* P. M., zodiacal light brilliant, bearing west by south.

March 4.—At 9*h.* 30*m.* P. M., commenced raining, with squalls of wind and light At 10*h.* 30*m.* P. M., ceased raining.

March 8.—At 9*h.* A. M., the dew point was below 24°; the exact point could not be asc- tained, as the ether was not sufficiently strong to produce a greater degree of cold.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH, 1842—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dewpoint.		Direction.	Force.	
Inches.	°	°	°	°	°	*Inches.*		*Lbs.*	
30.201	54.0	57.0	49.0	48.0		.338	Calm	0.00	Cir. strat.
29.760	59.5		58.0	58.0		.489	S. W. by W.	0.13	Stratus.
29.913	61.5	80.0	56.5	55.5	55.5	.439	Southwest	0.13	Cirrus.
29.904	65.0		64.0	61.0		.507	Southwest	0.13	Cumulus.
29.833	66.5	78.0	65.5	60.5	56.5	.476	Southwest	0.52	Cum. strat.
30.148	58.5		47.5	46.0	47.5	.309	Northeast	0.26	Stratus.
30.044	61.7		48.5	48.5	48.5	.355	Calm	0.00	Rain.
30.521	53.0	70.0	38.5	35.5		.192	N. W. by W.	0.13	Clear.
30.130	51.5		43.5	41.0	43.5	.246	S. S. W.	0.52	Rain.
29.903	58.0		55.5	54.5	55.0	.424	Southwest	0.06	Cir. strat.
29.742	60.5	60.0	58.0	57.5	58.0	.475	Calm	0.00	Cum. strat.
30.572	46.5	59.5	28.5	27.0		.152	Northwest	0.26	Clear.
30.264	47.5	58.0	40.0	39.5	37.0	.254	S. W. by W.	0.13	Cum. strat.
30.268	51.5		43.0	40.0	31.5	.230	Northeast	0.26	Cum. strat.
30.280	47.5	61.0	41.0	40.0	38.0	.153	S. W. by W.	0.13	Clear.
30.482	46.5	68.0	39.5	36.3	21.5	.196	Northwest	0.06	Cirrus.
30.114	51.0	62.0	52.5	48.5	38.5	.309	Southwest	0.18	Cir. strat.
30.281	55.5		55.7	48.8	33.0	.279	Northwest	0.13	Cir. strat.
30.102	57.0	55.0	50.9	50.5	49.5	.375	S. W. by W.	0.13	Cir. strat.
30.100	67.0	71.0	66.5	60.0	53.0	.450	E. N. E.	0.13	Cum. strat.
30.182	63.0		49.2	43.7	34.0	.238	E. N. E.	0.13	Cir. strat.
30.033	59.0		43.3	43.3	42.0	.297	Calm	0.00	Cum. strat.
30.256	52.0	50.0	42.0	40.0	28.5	.241	N. N. W.	0.13	Cum. strat.
30.298	52.7		42.3	41.0	36.5	.259	S. S. E.	0.13	Cum. strat.
29.880	51.0		42.7	42.7	42.7	.290	Northeast	0.10	Rain.
30.033	52.5	56.0	51.5	45.0	36.5	.240	West	2.08	Cum. strat.
30.352	50.5	63.5	46.0	41.0	32.5	.217	Northwest	0.26	Clear.
30.186	54.5	66.0	50.7	42.0		.184	N. N. W.	2.08	Clear.
30.484	54.5	72.0	40.0	38.0		.223	W. S. W.	0.06	Cirrus.
29.898	56.0	71.0	57.8	53.0	39.5	.360	Southwest	0.13	Stratus.
30.086	58.0	66.0	51.0	43.8	27.0	.220	Northwest	1.56	Cumulus.
30.137	55.59	64.42	48.99	46.05	41.07	.304			

REMARKS—Continued.

March 11.—At 0*h.* 30*m.* A. M., commenced raining, accompanied by thunder and sharp lightning.

March 13.—At 11*h.* 25*m.* P. M., commenced snowing. At 3*h.* 10*m.* A. M., it ceased, ending in a very light rain.

March 14.—At 2*h.* A. M., commenced raining. At 4*h.* 40*m.* A. M., ceased.

March 15.—At 1*h.* 45*m.* P. M., a violent squall from north-northwest, changing suddenly to north; continued till 2 P. M. At 4*h.* 10*m.*, another squall passed over, from west-northwest.

MARCH, 1842—Continued.

Days of the month.	Phases of the moon.	3 P. M.									
		Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
			Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
		Inches.	°	°	°	°	°	*In's.*		*Lbs.*	
Tues. 1		30.070	58.0	82.0	58.0	53.0		.358	Southwest	0.13	Cirrus
Wed. 2		29.552	66.0		69.5	65.0	61.5	.567	South	0.52	Stratus
Thu. 3	☾	29.870	68.5	96.0	73.5	65.0	55.0	.523	S. S. W.	0.06	Cumulus
Fri. 4		29.786	70.0	90.0	77.0	66.5	66.5	.532	S. S. W.	5.21	Cumulus
Sat. 5		29.878	70.0	96.0	75.0	64.0	63.0	.475	W. S. W.	0.26	Cum. strat.
Sun. 6		30.114	66.5		50.5	48.0	49.0	.321	N.E. by N.	0.06	Stratus
Mon. 7		30.068	62.5		50.0	49.0	50.0	.350	Northwest	0.26	Rain
Tues. 8		30.478	57.5	76.0	47.5	43.0	41.0	.242	N. W. by W.	0.13	Clear
Wed. 9		29.864	58.0	71.5	57.5	53.0	49.0	.364	S. W. by S.	3.64	Cir. strat.
Thu. 10		29.864	61.0		64.5	60.0	64.5	.473	Southwest	0.06	Rain
Fri. 11		29.844	62.5	74.0	58.5	48.0		.231	Northwest	2.60	Cum. strat.
Sat. 12	●	30.518	55.0	66.0	38.0	32.0	24.5	.130	Southwest	0.13	Clear
Sun. 13		30.212	53.0	66.0	53.0	46.0	41.0	.246	N. N. W.	0.52	Stratus
Mon. 14		30.248	53.0		42.0	41.0	32.5	.263	N. N. W.	0.13	Stratus
Tues. 15		30.240	51.4		42.4	41.9	37.5	.276	Northwest	0.13	Cumulus
Wed. 16		30.342	52.0	70.0	55.0	44.0	29.0	.179	S. S. W.	0.26	Cirrus
Thu. 17		29.936	57.0	73.0	69.0	65.0	46.0	.562	W. S. W.	0.26	Stratus
Fri. 18		30.206	59.0	88.0	67.0	58.0	40.0	.387	W. S. W.	0.06	Cir. strat.
Sat. 19	☽	29.986	65.0	96.0	80.0	68.0	58.0	.545	E. S. E.	0.26	Clear
Sun. 20		29.936	70.0	92.0	78.5	68.0	57.0	.562	North	0.13	Cum. strat.
Mon. 21		30.114	65.0		50.5	44.0	35.0	.230	E. S. E.	0.52	Cir. strat.
Tues. 22		30.040	61.0		50.0	44.0	35.0	.236	W. N. W.	0.52	Cumulus
Wed. 23		30.220	56.5	51.0	42.0	41.0	31.5	.263	E. N. E.	0.26	Cum. strat.
Thu. 24		30.242	55.5		42.7	40.0	42.7	.231	S. S. E.	0.26	Rain
Fri. 25		29.726	55.0		48.0	47.0	48.0	.326	Northwest	0.06	Rain
Sat. 26	○	30.166	54.0	62.0	51.0	44.0	33.0	.224	W. N. W.	0.52	Cumulus
Sun. 27		30.146	56.0	80.0	59.0	52.0		.321	N. W. by W	0.52	Clear
Mon. 28		30.176	56.5	79.0	58.0	44.5		.154	West	4.68	Cirrus
Tues. 29		30.322	57.0	79.5	55.0	48.0		.269	Southwest	0.13	Cirrus
Wed. 30		29.720	62.5	76.0	75.5	68.0	52.0	.598	Southwest	0.26	Stratus
Thu. 31		30.081	60.0	76.0	56.0	42.5	29.5	.134	N W. by W.	0.52	Clear
Mean		30.063	59.83	78.09	57.87	51.40	45.07	.341			

REMARKS—Continued.

March 19.—At 0*h*., a heavy squall from the northward and westward, accompanied by hail, thunder, and sharp lightning; lasted till 0*h*. 20*m*.

March 24.—Rain from 2*h*. 30*m*. to 4*h*. 30*m*. P. M., and from 6*h*. 10*m*. to midnight; thunder at 10 P. M.

March 25.—Thunder from 0*h*. to 7*h*. A. M. From 3*h*. to 4*h*. P. M., a heavy thunder squall; after which, the weather cleared.

March 28.—At 3*h*. A. M., commenced blowing in heavy puffs. At 9*h*. A. M., the dew point was below 27 degrees.

MARCH, 1842—Continued.

9 P. M.									Registering thermom'rs.		
	Thermometers.					Wind.					
Barometer.	Attached.	Dry.	Wet.	Dew point.	Force of vapor.	Direction.	Force.	Weather.	Maximum.	Minimum.	Rain or melted snow.
Inches.	°	°	°	°	Inch.		Lbs.		°	°	Inch.
29.988	57.5	52.5	50.0	52.5	.345	Calm		Stratus	60.0	44.0	
29.607	63.0	62.0	57.0	59.5	.418	S.W.by W.	0.13	Clear	70.0	51.5	0.095
29.868	67.5	63 0	58.0		.433	Southwest	0.26	Stratus	73.5	51.0	
29.758	70.5	69.0	68.0	69.0	.670	S. S. W.	1.04	Cum. strat.	77.0	57.5	0.017
30.036	70.0	63.0	56.0	63.0	.380	Northeast	0.52	Cumulus	75.5	58.5	
30.112	64.0	48.0	47.5		.337	Calm	0.00	Stratus	51.0	44.0	
30.236	61.0	43.0	41.0	35.5	.251	W. N. W.	0.26	Cum. strat.	51.0	42.0	0.480
30.456	56.0	42.0	39.0	30.0	.221	Northwest	0.06	Stratus	49.5	33.5	
29.761	59.0	54.5	51.5	45.0	.359	S. by W.	1.04	Stratus	59.5	41.0	
29.864	60.5	57.0	56.0	56.5	.447	Southwest	0.06	Stratus	64.5	53.0	0.283
30.230	55.0	33.0	30.0		.156	Northwest	3.64	Cum. strat.	63.0	33.0	0.225
30.432	54.0	31.0	30.0	23.0	.176	E. S. E.	0.06	Stratus	39.0	27.0	
30.274	52.0	45.0	41.5	38.0	.239	E. N. E.	0.06	Stratus	53.0	32.0	0.018
30.276	51.0	36.0	33.0	30.0	.173	N. N. W.	0.06	Stratus	43.0	35.0	0.018
30.320	52.0	41.0	36.0	31.0	.173	Northwest	0.06	Clear	50.5	32.0	0.022
30.266	53.0	46.0	40.0	33.0	.176	W. S. W.	0.06	Clear	55.0	32.5	
29.996	57.0	60.0	52.0	35.0	.310	West	0.26	Stratus	69.0	43.0	
30.166	60.0	55.0	50.0		.317	Calm	0.00	Stratus	67.5	52.5	
30.021	68.0	69.0	63.0	52.0	.511	E. S. E.	0.06	Clear	82.0	46.5	0.069
29.936	68.0	65.0	58 0	51.5	.411	Northeast	0.26	Cum. strat.	80.5	59.0	
30.096	64 0	39.5	37.0	39.5	.210	Southeast	0.52	Rain	58.0	34.5	
30.186	57.0	43.5	40.0	31.0	.224	N. N. W.	0.52	Cloudy	51.0	38.0	0.088
30.284	55.0	40.5	37.8	36.5	.214	N.E. by N.	0.13	Cum. strat.	47.5	39.0	
30.164	55.0	39.0	37.0	39.0	.215	E. by N.	0.13	Rain	44.5	38.0	0.150
29.836	54.0	47.0	46.0	46.5	.315	Northwest	0.06	Cirrus	50.5	38.0	0.282
30.286	53.0	41.0	36.0	34.0	.173	West	0.13	Clear	51.5	40.0	
30.086	55.5	49.0	47.0	36.0	.314	Southwest	0.13	Clear	60.0	36.0	
30.332	57.5	49.0	40.0		.161	North	0.26	Clear	58.7	47.0	
30.196	57.0	46.0	42.0	35.0	.237	Southwest	0.13	Cum. strat.	55.0	29.5	
29.836	62.0	67.0	58.0		.388	West	5.21	Cum. strat.	76.0	46.0	
30.258	57.0	43.5	36.0	30.0	.145	W. N. W.	0.26	Clear	56.0	40.0	
30.102	58.90	49.71	45.59	41.32	.294				60.07	41.76	1.747

REMARKS—Continued.

March 30.—At 1*h*. 30*m*. P. M., dew point at 50°.5; air 73°. At 8*h*. 30*m*. P. M., heavy gusts from the westward.

March 31.—At 3*h*. P. M., dew point below 29°.5. At 7*h*. 30*m*. P. M., zodiacal light brilliant. Apex of the cone near the Pleiades.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1842.

Days of the month.		Phases of the moon.	3 A. M.							
			Barometer.	Thermometers.				Force of vapor.	Wind.	
				Attached.	Dry.	Wet.	Dew point.		Direction.	Force.
			Inches.	°	°	°	°	Inch.		Lbs.
Fri.	1		30.436	54.0	34.0	30.0		.145	W. N. W.	0.06
Sat.	2	☾	30.347	55.5	41.0	38.0	28.5	.212	S. by W.	0.52
Sun.	3		30.162	60.0	54.0	48.0	42.5	.281	S. S. W.	0.06
Mon.	4		29.955	63.0	61.0	56.0	58.0	.402	Northwest	0.13
Tues.	5		30.072	63.0	44.5	43.5	44.0	.282	N. E. by E.	0.36
Wed.	6		30.261	63.0	43.0	42.0	25.5	.272	Calm	0.00
Thu.	7		30.010	64.5	54.0	52.0	54.0	.378	Calm	0.00
Fri.	8		29.716	67.0	56.0	54.0	56.0	.406	Northeast	0.52
Sat.	9		29.794	64.5	45.5	45.0	45.0	.308	E. N. E.	1.56
Sun.	10	●	30.112	61.0	46.0	42.5	41.0	.243	West	0.06
Mon.	11		29.984	61.0	53.0	50.0		.339	N. N. E.	0.13
Tues.	12		30.096	64.0	53 0	51.0		.364	N. N. E.	0.06
Wed.	13		29.989	65.0	54.0	48.0	54.0	.282	Southeast	0.13
Thu.	14		29.936	62.0	48.0	47.5	48.0	.331	East	0.06
Fri.	15		30.122	62.5	44.7	40.7	39.0	.225	Calm	0.00
Sat.	16		30.146	61.5	51.0	45.0	39.0	.246	Northeast	0.13
Sun.	17		30.274	60.0	46.5	44.0	38.5	.276	S. E. by E.	0.26
Mon.	18	☽	29.981	59.0	45.0	43.0	45.0	.271	E. N. E.	3.02
Tues.	19		29.866	56.0	45.0	44.0	45.0	.293	N.E. by N.	0.26
Wed.	20		29.752	58.0	46.7	45.2	44.0	.300	Calm	0.00
Thu.	21		30.070	59.5	46.0	42.0		.237	N. N. E.	0.13
Fri.	22		30.169	61.2	52.0	51 0	43.0	.375	Calm	0.00
Sat.	23		29.886	65.0	60.0	56.0	52 0	.413	Calm	0.00
Sun.	24	○	30.168	69.0	54 7	52.0	53.7	.370	Calm	0.00
Mon.	25		30.012	68.0	62.8	61.0		.521	Calm	0.00
Tues.	26		29.836	72.0	69.0	62.0		.482	W. S. W.	0.06
Wed.	27		29.670	68.5	52.5	46.0	47.5	.254	W. N. W.	1.30
Thu.	28		29.858	64.5	46.0	42.7	50.5	.253	W. S. W.	0.13
Fri.	29		30.082	65.0	39.5	36.0	35.5	.190	West	0.06
Sat.	30		29.952	59.5	41.0	37.0		.193	Calm	0.00
Mean			30.024	62.56	49.64	46.47	43.88	.311		

REMARKS.

April 1.—At 9 A. M., dew point below 16°.5; at 3 P. M., below 23°; at noon, halo visible, diameter 44° 46′; at 8 P. M., zodiacal light visible.

April 7.—At 8*h*. 30*m*. P. M., sharp lightning in the northeast; from 9*h*. to 10*h*. P. lightning in the north.

April 12.—At 9*h*. P. M., a very light shower; at 11*h*. P. M., lightning in the north

April 13.—From 7*h*. 30*m*. to 8*h*. P. M., thunder and lightning.

April 14.—The rain noted on this date is the quantity that fell between 9*h*. P. M. 12th and midnight of the 14th. At 10*h*. P. M., an auroral light visible, extending N. E. to W. N. W.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1842—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
Inches.	°	°	°	°	°	*Inch.*		*Lbs.*	
30.504	54.0	57.5	38.5	32.0		.133	N. N. W.	0.26	Cir. strat.
30 316	58.5	67.5	52.7	48.3	36.0	.302	S. S. W.	0.26	Cir. strat.
30.163	61.4	73.0	63.1	58.7	57.0	.451	S. S. W.	0.26	Cir. strat.
30.104	64.5	61.0	58.0	54.3	57.5	.391	Northeast	0.13	Cir. cum.
30.117	61.4		48.5	48.0		.343	North	0.06	Cir. strat.
30.338	62.0	77.5	54.0	51.0	46.5	.352	E. N. E.	0.13	Cirrus.
29.892	63.0	83.0	62 2	61.8	57.0	.551	Southwest	0.06	Cir. strat.
29.851	66.6		59.0	55.8	55.5	.419	Southeast	0.06	Cir. strat.
29.901	62.0		46.3	44.8	46.3	.250	N. W. by N.	2.34	Rain.
30.155	61.2	79.0	50.6	47.1	43.6	.299	N. N. W.	0.13	Clear.
30.065	61.5	84.4	61.6	56.0	53.0	.395	N. W. by N.	0.52	Cir. strat.
30.067	63.0	85.0	61.0	54.0	43.5	.350	E. N. E.	0.13	Cirrus.
30.060	63.5		49.3	47.5	49.3	.323	E. N. E.	0 26	Rain.
30.020	57.3		51 3	46.2	43.5	.270	W. N. W.	0.26	Cir. strat.
30.166	61.0	80.0	52.5	49.0	47.0	.322	Southwest	0.06	Cir. strat.
30.272	59,2	61.5	52.2	48.0	39.0	.301	Northeast	0.13	Cum. strat.
30.254	59.0		48.0	43.0	42.0	.236	N. E. by E.	1.04	Stratus.
30.036	56.0		47.5	46.0	47.5	.309	N. E. by N.	0.13	Rain.
29.734	55.0		44.2	43.0	44.2	.280	N. E. by N.	0.26	Rain.
29.904	57.5		55.0	51.0	50.0	.341	Northwest	0.13	Cum. strat.
30.200	60.0	86.0	58.0	53.0	49.0	.358	Northeast	0.13	Cir. strat.
30.156	61.0	78.0	59 5	58.0	48.0	.472	S. W. by W.	0.13	Clear.
30.006	68.2	91.0	75.5	65.0	56 0	.505	Northwest	0.06	Cir. strat.
30.186	67.5	76.0	63 0	59.5	57.5	.476	Southeast	0.13	Stratus.
30.040	68.0		66.5	64.0	65.0	.569	W. S. W.	0.06	Stratus.
29.704	72.4	88.0	74.3	68.5	63.0	.628	S W. by S.	0.65	Cir. strat.
29.686	67.5	76.5	56.8	50.5	42.5	.310	Southwest	1.04	Clear.
29.942	61.0	68.0	51.5	44.0	29.0	.220	Northwest	0.52	Cumulus.
30.112	61.4	74.0	56.5	48 2	37.7	.256	S. W. by S.	1.04	Cir. strat.
29.986	60.5	80.5	55.5	50.5	43.0	.324	Northeast	0 06	Cirrus.
30.064	61.67	76.37	55.75	51.22	48.18	.358			

REMARKS—Continued.

April 19.—The rain noted is for the 48 preceding hours.

April 25.—At 10*h*. P. M., observed a meteor shooting from the southward and eastward, in a northwestern direction.

April 26.—At 1*h*. 30*m*. A. M., observed another meteor proceeding from the same quarter, and pursuing the same direction. At 3*h*. 30*m*. P. M., rain, thunder, and lightning, the thunder clouds distant one and a half miles.

April 29.—At 11*h*. A. M., observed a solar halo, the vertical diameter being 44° 04′, and the horizontal 44° 32′; at 0*h*. 20*m*. P. M., it disappeared.

APRIL, 1842—Continued.

3 P. M.

Days of the month.	Phases of the moon.	Barometer.	Thermometers.					Force of vapor.	Wind.	
			Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.
		Inches.	°	°	°	°	°	*Inch.*		*Lbs.*
Fri. 1		30.436	55.0	71.0	47.0	39.0		.164	Calm	0.00
Sat. 2	☾	30.164	60.0	87.5	72.5	60.0	40.0	.383	S. S. W.	1.04
Sun. 3		30.072	66.0	82.0	81.0	68.0		.535	S. S. W.	0.06
Mon. 4		30.096	65.5		55.0	52.0	53.5	.366	E. N. E.	0.26
Tues. 5		30.080	64.0	96.0	63.2	57.5		.417	East	0.13
Wed. 6		30.208	64.0	90.0	67.5	60.0	48.0	.439	Southwest	0.13
Thu. 7		29.620	68.0	80.5	80.5	68.0	59.0	.543	S. S W.	0.13
Fri. 8		29.716	68.0		63.0	59.0	63.0	.461	Northeast	0.52
Sat. 9		29.974	62.3		52.2	48.0	44.5	.302	N. W by W.	2.08
Sun. 10	●	30.036	63.0	89.0	67.5	60.0	47.0	.439	Northwest	0.13
Mon. 11		30.036	64.0	93.0	71.5	62.0	38.0	.453	Northwest	0.26
Tues. 12		29.954	64.0	80.0	72.0	64.0	44.0	.507	E. S. E.	0.13
Wed. 13		29.986	63.5		50.0	48.0	44.0	.327	E. N. E.	0.26
Thu. 14		29.970	61.5	86.5	62.5	51.8	37.5	.277	West	0.26
Fri. 15		30.070	63.0	84.0	65.0	56.0	32.0	.357	S. S. W.	0.13
Sat. 16		30.260	61.0	70.0	60.0	50.0	38.0	.259	E. S. E.	0.26
Sun. 17		30.132	61.0		48.0	46.0	48.0	.304	Northeast	3.02
Mon. 18	☽	29.976	57.0		49.0	46.5	49.0	.303	N. E. by N.	0.40
Tues. 19		29.652	58.0		50.3	48.2	49.3	.328	N. by W.	0.13
Wed 20		29.934	59.5		60.0	54.0	50.5	.361	Northwest	0.13
Thu. 21		30.196	62.0	84.0	68.8	62.0	46.0	.483	Variable	0.06
Fri. 22		30.072	66.0	96.0	76.5	68.0	56.0	.586	S. W. by W.	0.13
Sat. 23		30.024	69.3	86.5	81.3	67.8	54.5	.526	W. N. W.	0.06
Sun. 24	○	30.102	68.5	92.0	75.0	68.5	61.0	.619	S. S. E.	0.06
Mon. 25		29.976	72.5	104.0	85 5	74.0	61.5	.700	W. S. W.	0.13
Tues. 26		29.522	74.0		81.0	69.8	59.2	.600	S S. W.	1 56
Wed. 27		29 952	67.0	82.0	62.5	49.5	55.0	.221	West	1.56
Thu. 28		29.970	60.0	76.0	56.0	46.0	31.5	.214	W. N. W.	0.56
Fri. 29		29.982	61.7		63.5	52.0	35.0	.271	Southwest	0.52
Sat. 30		29.872	63.5	80.5	69.0	59.8	40.0	.417	Northeast	0.13
Mean		30.001	63.76	85.52	65.23	57.27	47.60	.405		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL, 1842—Continued.

9 P. M.									Registering thermom'rs.		Rain or melted snow.
	Thermometers.					Wind.					
Barometer.	Attached.	Dry.	Wet.	Dew point.	Force of vapor.	Direction.	Force.	Weather.	Maximum.	Minimum.	
ches.	°	°	°	°	°		*Lbs.*		°	°	*Inches.*
.390	56.0	39.0	37 0	25.5	.216	Calm	0.00	Clear	50.0	30.0	
.172	61.0	61.0	53.0	41.0	.324	S. by W.	0.78	Stratus	72.5	40.0	
.068	66.0	67.0	62.0	56.0	.503	South	0.06	Cum.strat.	83.0	54.0	
.120	64.0	45.5	42 5	44.5	.249	N.E. by E.	0.52	Cir. strat.	64.0	45.0	
.198	63.5	51.0	48.0		.315	Calm	0.00	Cir. strat.	65.0	43.5	
.116	64.0	57.0	52.0	50.0	.346	South	0.06	Stratus	68 4	41.4	0.023
.708	67.0	68.0	62.0	57.0	.493	North	0.13	Stratus	83.0	53.8	0.032
.802	66.0	49.5	48.0	49.5	.332	Southeast	1.56	Rain	65.0	49.0	0.015
086	61.7	49.5	45.2	43.0	.269	N.W.by W.	0.39	Stratus	53.0	44.0	1.567
.010	63.0	56.5	53.0	55.0	.375	N. N. W.	0.06	Cumuli	67.5	42.2	0.035
.052	64.0	60.0	58.0	49.0	.467	N. N. W.	0.06	Clear	75.0	52.0	
.942	64.0	58.0	52.0	58.0	.333	S. S. E.	0.26	Rain	72.0	50 0	
.941	62.5	47.5	46.0	47.5	.309	East	0.13	Rain	56.0	46.0	
.046	62.2	52.5	46.0		.253	South	0.06	Cum.strat.	64.0	47.0	0.445
.068	62.0	53.0	49.0	35.0	.315	South	0 06	Clear	66.0	41.2	
.270	61.0	50 0	46.0	42.0	.280	South	0.06	Cum.strat.	60.0	49.0	
.069	60.0	45.5	44.0	45 5	.287	Northeast	3.54	Rain	50.0	44.0	0.600
.946	56.0	46.5	46 0	46.5	.320	N.E.by N.	0.26	Rain	49 0	45.0	
.680	58.3	47.2	46.0	47.2	.313	Calm	0.00	Rain	51.7	43.5	1.332
.020	59.6	52.0	48.0	51.5	.303	Variable	0.06	Cirrus	60.0	46.0	
.186	62.8	56.0	51.0	51.0	.329	Calm	0.00	Cirrus	70.0	46.0	
.936	65.0	65.5	60.0	60.0	.461	S.W.by W.	0.13	Cumuli	78.5	52 0	
.148	69.0	61.7	56.0	58.0	.394	W. by S.	0.06	Stratus	81.3	59 7	
.104	68.5	64.0	61.0	61.0	.507	S. S. E.	0.06	Cir. strat.	77 5	54.4	
.860	72.0	73 0	66.0	62.0	.561	W. S. W.	0.13	Clear	85 5	62.5	
.602	72.5	60.7	57.0	60.7	.432	W. N. W.	0.13	Rain	83.3	57.7	0.795
.808	64.5	49.5	43.0	37.0	.220	W. N. W.	0.06	Clear	65.0	47.5	
036	62.0	47.5	46.5	38.0	.320	Calm	0.00	Clear	57.5	44.5	
972	61.5	50.0	46.0		.281	West	0.06	Stratus	63.5	38.0	
.836	65.5	55.0	50.0	50.0	.317	West	0.06	Cumulus	69.0	41.0	
.006	63.50	54.64	50.67	50.79	.348				66.87	46.90	4.844

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1842.

Days of the month.	Phases of the moon.	3 A. M.								
		Barometer.	Thermometers.				Force of vapor.	Wind.		W
			Attached.	Dry.	Wet.	Dew point.		Direction.	Force.	
		Inches.	°	°	°	°	*Inches.*		*Lbs.*	
Sun. 1		29.836	61.5	52.0	50.0	52.0	.351	Southwest	0.06	Cle
Mon. 2	☾	29.638	66.0	56.0	52.0		.356	Calm	0.00	Cl
Tues. 3		29.836	64.0	45.7	44.0	45.7	.285	N. N. E.	0.13	Ra
Wed. 4		29.936	60.0	45.5	43.0		.265	North	0.13	Cu
Thu. 5		30.246	60.0	47.5	42 0	40.0	.220	North	0.12	Cle
Fri. 6		30.276	61.0	45.0	40.0	43.0	.230	Calm	0.00	Cle
Sat. 7		30.080	61.0	50.0	47.5	42.0	.315	Calm	0.00	Cle
Sun. 8		30.186	60.0	45.0	42.0	40.0	.249	Calm	0.00	[illegible]
Mon. 9		29.882	63.0	49.0	47.0	46.0	.315	N. N. W.	0.13	[illegible]
Tues. 10	●	30.036	61.2	47.0	43.4	39.5	.257	Southwest	0.06	Str
Wed. 11		29.848	63.0	58.0	54.0		.383	S. S. W.	0.13	Str
Thu. 12		29.928	68.5	67.0	60.0	48.0	.445	West	0.13	[illegible]
Fri. 13		30.046	66.0	51.0	48 0		.315	Calm	0.00	[illegible]
Sat. 14		30.110	67.3	47.7	42.7	37.6	.233	N. W by N.	0.06	[illegible]
Sun. 15		30.050	64.5	48.5	45 5	45.0	.286	South	0.06	[illegible]
Mon. 16		30.030	63.0	47.0	44.0	43.0	.270	S. S. W.	0.13	Cle
Tues. 17	☽	30.148	64.0	64.0	63.0		.567	Calm	0.00	[illegible]
Wed. 18		30.222	68.5	55.7	52.5	52.0	.348	Southwest	0.06	[illegible]
Thu. 19		30.164	67.0	56.0	52.0	50.0	.354	Southwest	0.06	[illegible]
Fri. 20		30.091	71.0	64.0	59.0	64.0	.450	Northeast	3.12	Ra
Sat. 21		30.338	64.0	45.0	42.0	44.0	.249	N. N. E.	0.13	Str
Sun. 22		30.124	62.0	51.5	50 0	50.0	.356	N. N. E.	0.06	Str
Mon. 23		29.848	64 0	60.0	58.0	58.0	.467	West	0.13	Cu
Tues 24	○	30.071	67 0	56.0	54.0	49.0	.406	Calm	0.00	Cir
Wed. 25		29.956	69.0	62.0	58.0	60.0	.445	Northwest	0.06	Cir
Thu. 26		30.080	67.0	52.0	48.0	50.0	.303	Calm	0.00	Clear
Fri. 27		29.988	68.0	60.5	60 0	57.0	.517	Calm	0.00	Stra
Sat. 28		29.976	69.5	63.0	58.5	62.0	.448	Calm	0.00	Clea
Sun. 29		29.948	71.0	64.0	60.5	60 0	.493	Calm	0.00	Cum
Mon. 30		29.708	72.0	68.5	65.0	60.0	.578	Southwest	0.13	Cir
Tues. 31		29.846	70.5	56 5	50.0	52.0	.301	Northwest	0.13	Cum
Mean		30.015	65.31	54.15	50.82	49,65	.357			

REMARKS.

May 1.—At 1*h*. P. M., a rain squall, accompanied with thunder and lightning. At P. M., lightning in the east.

May 2.—From 10*h*. to 11*h*. A. M., a violent storm of rain, thunder, and lightning. 3*h*. 50*m*. to 4*h*. 15*m*. P. M., a violent storm of rain, thunder, and lightning.—See changes from 0*h*. 25*m*. to 2*h*. P. M., page 534.

May 13.—At 5*h*. 30*m*. P. M, the wind veered to north-northwest, blowing very and accompanied with a light rain. At 7*h*. 40*m*. P. M, a lunar halo visible.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1842—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dew point		Direction.	Force.	
Inches.	°	°	°	°	°	°		*Lbs.*	
29.786	63.0		64.0	60.5	57.0	.493	W. by S.	0.06	Stratus.
29.608	64.2		55.5	54.5	55.5	.424	Northeast	0.13	Rain.
29.896	61.6		45.5	43.5	45.5	.277	N. N. E.	0.13	Rain.
30.045	59.0	70.0	54.0	50.0	49.5	.328	W. N. W.	0.26	Cir. cum.
30.384	60.5	82.0	56.5	50.0	35 0	.299	W. N. W.	0.06	Clear.
30.238	60.0	82.0	58.5	56.0	50.0	.430	W. S. W.	0.06	Clear.
No observation.									
30.090	62.0	72.0	59.0	55.0	51.0	.397	S. S. W.	0 36	Cumulus.
29.902	60 5	70.5	53.7	48.2	45.0	.289	N. W. by N.	0.52	Cum. strat.
29.992	60.0	68.0	60.5	56.0	48.5	.408	Southwest	0.13	Stratus.
29.860	65.0	70.0	68.5	61.0		.457	S. W. by S.	0.06	Cir. strat.
30.060	66.0	74.0	60.5	52.0	41.5	.305	Northwest	0.26	Stratus.
29.886	66.7	79.0	69.8	68.0	69.0	.661	S. W. by S.	0.26	Cir. strat.
30.212	66.5	80.0	55.0	48.0	35.0	.269	N. N. E.	0.13	Stratus.
30.000	64.0		52.5	50.5		.357	Calm	0.00	Stratus.
30.086	62.5	74.0	58.5	58.0	52.0	.483	Southwest	0.06	Cum. strat.
30.208	64.0	84.0	68.0	65.0	55.7	.583	Southwest	0.06	Stratus.
30.272	67.0	80.0	67.8	65.0	60.0	.586	Southwest	0 06	Cum. strat.
30.178	68.0	90.0	72.0	68.0	64.0	.636	S. S W.	0.13	Clear.
30.166	69.0		54.0	50.5	54.0	.339	Northeast	2.08	Rain.
30.348	62.0		48 5	46.5	46.5	.308	N. E. by N.	0.26	Stratus.
30.042	62.0		59.5	57.0	52.0	.445	Southwest	0.26	Cum. strat.
29 942	66.0	82.0	69.0	59.0	50.0	.394	N. N. W.	0.52	Cir. strat.
30 056	68.0		71.5	66.5	58.0	.592	Calm	0.00	Cirrus.
30 074	67.0	80.0	64.5	58.0	52.0	.416	N. N. W.	0.13	Cir. strat.
30.120	67.0	90.0	70.0	66.0	58.0	.598	Calm	0.00	Cirrus
29.966	68.0		70.5	66 5	64.5	.603	Calm	0.00	Stratus.
30.086	70.0	94.0	71.5	66.0	60.0	.576	Northeast	0.06	Clear.
29.860	72.0	93.0	78 0	73.0	68.5	.746	Southwest	0 06	Cum. strat
29.676	73.0	92.0	73.0	68.0	57.5	.626	N.W. by W.	0.26	Cumulus.
29.896	69.5	86.0	63 0	56.0	48.0	.380	Northwest	0.13	Clear.
30.031	65.13	80.57	62 43	58.07	52.61	.457			

REMARKS—Continued.

8*h*. 30*m*. P. M., heavy gusts of wind from the northwest, with lightning in the east southeast.

May 17 —At noon, observed a halo around the sun. Its vertical diameter measured 44° 02′, and the horizontal 44° 57′. At 4*h*. 45*m*. P. M., it had disappeared.

May 19.—At 9*h*. P. M., lightning in the northwest.

May 20.—At 10*h*. P. M , wind commenced blowing from northward and eastward, and continued throughout the night, with heavy squalls at intervals, accompanied with rain.

MAY, 1842—Continued.

Days of the month.	Phases of the moon.	3 P. M.								
			Thermometers.						Wind.	
		Barometer.	Attached.	Sun.	Dry.	Wet.	Dew point.	Force of vapor.	Direction.	Force.
		Inches.	°	°	°	°	°	*Inch.*		*Lbs.*
Sun. 1		29.586	65.0	96.0	76.0	66.0	56.5	.528	S. S. W.	0.13
Mon. 2	☾	29.648	66.5		61.5	57.0	57.0	.423	Northwest	0.52
Tues. 3		29.879	62.0		47.5	46.0	47.5	.309	N. N. E.	0.13
Wed. 4		30.080	62.5	87.0	64.0	55.0	45.0	.341	N. N. W.	0.34
Thu. 5		30.336	62.0	92.0	64.5	54 0	34.5	.308	Calm	0.00
Fri. 6		30.118	61.0	94.0	73.0	62.0	50.0	.436	Northwest	0.13
Sat. 7		30.186	61.5	92.5	65.0	52 5	39.0	.266	Variable	0.13
Sun. 8		29.936	64.0		65.0	59.0	65.0	.439	Southwest	0.06
Mon. 9		29.948	61.3	81.5	58.5	47.8	27.5	.224	N.W.by N.	0.52
Tues. 10	●	29.910	64.5	78.0	75.5	65.0	49.5	.500	Southwest	0.13
Wed 11		29.700	68.5	95.0	83.5	78.0	61.5	.879	S. S. W.	0.52
Thu. 12		30.036	66.0	90.0	69.0	58.0	47.5	.366	Northwest	0.13
Fri. 13		29 796	68.3		74.8	70.0	60.5	.674	Calm	0.00
Sat. 14		30.118	66.0	80.0	69.5	58.0	33.5	.359	N. N. E.	0.06
Sun. 15		29.978	66.0		54.0	50.0	47.0	.328	Calm	0.00
Mon. 16		30.036	65.0	92.0	76.5	64.0	50.5	.457	Southwest	0.06
Tues. 17	☽	30.186	66.5	95.0	81.5	68.5	50.2	.546	S. W. by S.	0.13
Wed. 18		30.222	68.0	84.0	80 0	72.0	62.5	.685	S. S. W.	0.06
Thu. 19		30.100	74.0	98.0	85.0	80.0	66.0	.946	S. S. W.	0.13
Fri. 20		30.372	69.5		48.0	44.0	44.8	.258	Northeast	0.52
Sat. 21		30.292	62.8		55.5	53.0	48.0	.386	N. by E.	0.13
Sun. 22		29.940	65.0		65.0	62.0	58.5	.525	S. S. W.	0.13
Mon. 23		29.996	66.2	91.0	70.0	66.0	50.0	.593	W. N. W.	0 52
Tues. 24	○	29.960	68.0		73.5	66.0	60.0	.554	Southeast	0.13
Wed. 25		30.012	69.0	92.0	72.8	60.0	50.0	.379	Northwest	0.13
Thu. 26		30.028	69.0		80.0	74.5	60.0	.779	S S. W.	0.06
Fri. 27		29.866	70.0	92.0	82.5	74.0	68.0	.733	W. S. W.	0.13
Sat. 28		30.016	71.0	100.0	78.0	68.0	60.0	.569	Airs	0.06
Sun. 29		29.716	74.5		85.0	75.0	70 0	.744	Southwest	0.06
Mon. 30		29.678	74.0	96.0	80.5	66.5	55.0	.494	W. N. W.	0.26
Tues. 31		29.978	70.0	92.0	70.5	57.0	39.5	.322	N. by W.	0.13
Mean		29.989	66.70	90.90	70.31	61.90	51.71	.495		

REMARKS—Continued.

May 22.—A lunar halo visible at midnight.

May 24.—At 0*h*. 30*m*. P. M., the wind veered to the southward, accompanied with a shower of rain.

May 26.—Rain commenced at 7*h*. P. M.

May 27.—At 6*h*. P. M., thunder in the northeast. At 8*h*. and at 10*h* P. M., in the east.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY, 1842—Continued.

9 P. M.									Registering thermom'rs.		Rain or melted snow.
	Thermometers.					Wind.					
Barometer.	Attached.	Dry.	Wet.	Dew point.	Force of vapor.	Direction.	Force.	Weather.	Maximum.	Minimum.	
Inches.	°	°	°	°	*Inch.*				°	°	*Inches.*
29.554	66.5	64.5	56.5	54.5	.367	Calm	0.00	Clear	78.0	51.5	
29.822	64.4	52.0	50.0	52.0	.351	N. N. W.	0.13	Rain	68.2	52.0	2.583
29.896	60.0	45.0	44.0	45.0	.293	Northeast	0.13	Rain	47 5	45.0	1.850
30.144	60.0	51.0	46.0	50.0	.269	North	0.06	Clear	64.5	45.0	
30.292	60.8	52.7	48.5	50.5	.307	S. S. W.	0.13	Clear	68.0	43.5	
30.109	61.5	57.0	52.0	45 0	.344	Calm	0.00	Clear	74.5	43.0	
30 168	61.5	51.5	46.0	40.0	.263	Calm	0.00	Clear	66.5	49.5	
29.906	63.0	52.0	51.0	56.0	.375	Northwest	0.13	Cumulus	68.5	45.0	0.165
30.020	62.7	50.4	44.4	41.2	.241	Calm	0.00	Stratus	59.7	48.7	
29.876	63.5	62.0	56.5	55.0	.403	Calm	0.00	Stratus	75.5	46.0	
29.785	70 0	73.0	68.0	51.0	.626	Calm	0.00	Clear	86.0	57.5	
30.066	66.5	58.5	52.5	50.0	.340	Calm	0.00	Clear	73.0	57.0	
30.010	68.0	60.0	50.3	41.0	.268	Northwest	1.56	Stratus	78.0	51.0	
30.108	65.0	55.0	48 0	40.0	.269	Southeast	0.13	Cir. strat	69.5	46.7	
30.011	64.0	51.5	47.0	35.0	.286	Calm	0.00	Clear	55.0	44.0	0.160
30.086	64.0	64.0	64.0		.597	Calm	0.00	Clear	77 5	44.5	
30.216	66.5	63.5	57.0	55.2	.399	Southwest	0.06	Stratus	81.5	61.0	
30.208	68.0	63.5	58.0		.426	Southwest	0.06	Cir. strat.	80.0	55.4	
30.078	72.5	71.0	67.0	65.0	.614	N. N. E.	0.13	Cir. strat.	85 0	52.0	
30.356	66.0	45.5	44.0	45.0	.287	Northeast	0.26	Cir. strat.	68.0	45.5	0.670
30.230	63.0	52.0	49.0	45.0	.327	Calm	0.00	Stratus	55 5	45.0	
29.886	64.0	61.5	58.5	58.0	.464	Southwest	0.13	Cumulus	71.5	51.0	
30.046	67.0	63.0	61.5	54.0	.533	Calm	0.00	Cir. strat.	73.5	59.0	
29.936	68.0	64.0	62.0	63.0	.537	Calm	0.00	Stratus	73.5	56.0	
30.070	68.0	60.0	54 0	55.0	.361	Southwest	0.06	Cir. strat.	75.0	57.0	
30.008	68.0	63.0	60.0	63.0	.489	Southeast	0.06	Rain	80.0	51 0	0.770
29.886	70.0	69.5	64.0	64.0	.535	Calm	0.00	Clear	82.5	58 5	0.012
30.026	71.0	71.0	64.0	60.0	.519	Southwest	0.06	Cum. strat.	81.9	60.5	
29.726	73.0	68.0	65.5	69.0	.601	Calm	0.00	Cir. strat.	85.5	63.0	0.750
29.778	72.0	65.5	56 5	53.0	.365	W. N. W.	0.13	Clear	80.5	63.0	
30.064	69.5	58.0	52.0	55.0	.333	W. N. W.	0.06	Clear	71.5	56.0	
30.012	66.06	59.32	54.76	52.09	.400				72.75	51.73	6.960

REMARKS.

JUNE, 1842.

Days of the month.		Phases of the moon.	3 A. M.							
			Barometer.	Thermometers.				Force of vapor.	Wind.	
				Attached.	Dry.	Wet.	Dew point.		Direction.	Force.
			Inches.	°	°	°	°	Inches.		
Wed.	1	☾	30.112	68.0	52.0	46.5	43.0	.268	Airs	0.06
Thu.	2		30.198	66.5	50.0	46.0	35.0	.280	Calm	0.00
Fri.	3		30.156	71.0	50.0	46.0	49.0	.280	Southeast	0.06
Sat.	4		29.134	69.0	63.0	59.0	60.0	.461	N. N. E.	0.06
Sun.	5		29.900	70.0	65.0	62.0		.525	S. S. W.	0.13
Mon.	6		29.889	74.0	67.5	64.0	51.0	.558	Calm	0.00
Tues.	7		30.186	72.0	60.0	50.0	49.0	.259	N. N. E.	0.26
Wed.	8	●	30.386	68.0	54.0	51.0	63.0	.352	E. N. E.	0.13
Thu.	9		30.141	68.0	63.0	61.0	63.0	.519	S. S. W.	0.13
Fri.	10		29.881	71.0	69.0	66.0	66.0	.604	Calm	0.00
Sat.	11		30.070	68.5	57.0	52.0	47.0	.344	Northwest	0.52
Sun.	12		30.290	65.0	46.0	45.0	38.0	.303	West	0.06
Mon.	13		30.088	66.5	60.5	58.0	58.0	.461	S. S W.	0.52
Tues.	14		30.148	70.2	65.0	62.6	61.5	.543	Calm	0.06
Wed.	15	☽	30.086	71.0	66.0	64.0	66.0	.575	East	0.06
Thu.	16		30.036	72.0	66.5	64.0	63.0	.569	Calm	0.00
Fri.	17		29.987	73.5	68.0	66.0	68.0	.616	S. S. E.	0.52
Sat.	18		29.998	73.0	70.0	69.0	68.6	.693	Calm	0.08
Sun.	19		29.866	76.0	72.0	68.0	69.5	.637	Calm	0.00
Mon.	20		29.984	77.5	70.0	69.0	70.0	.693	Southwest	0.06
Tues.	21		30.089	75.0	70.0	67.0	64.0	.625	Southwest	0.06
Wed.	22	○	30.091	75.0	71.0	70.0	70.0	.716	Calm	0.00
Thu.	23		29.891	78.0	72.2	70.0	71.0	.703	Calm	0.06
Fri.	24		29.956	77.0	68.0	66.0	68.0	.616	Northeast	0.13
Sat.	25		30.036	74.0	66.0	64.0	68.0	.616	Airs	0.06
Sun.	26		29.828	73.0	78.0	76.0	68.0	.860	S. S. W.	0.52
Mon.	27		29.800	76.5	69.5	66.0	69.0	.599	East	0.16
Tues.	28		29.976	77.0	67.0	62.0		.503	Calm	0.00
Wed.	29		29.961	78.0	68.5	64.0	65.0	.547	S. by W.	0.13
Thu.	30	☾	30.125	80.0	74.0	72.0	60.0	.729	Calm	0.00
Mean			30.009	72.47	64.56	61.60	60.39	.535		

REMARKS.

June 9.—From 8*h*. to 10*h*. P. M., lightning in the northwest.
June 10.—At midnight, a light shower of rain, with lightning in the west.
June 14.—At 5*h*. P. M., a light shower of rain.
June 16.—At 2*h*. P. M., rain commenced, accompanied by heavy thunder and constant lightning.
June 18.—At 1*h*. P. M., a heavy shower of rain.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1842—Continued.

9 A. M.

Barometer.	Thermometers.					Force of vapor.	Wind.		Weather.
	Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.	
Inches.	°	°	°	°	°	*Inches.*		*Lbs.*	
30.176	67.5	88.0	66.5	57.0	43.0	.366	Northwest	0.06	Clear.
30.276	66.0	92.0	67.5	60.0	46.0	.439	Calm	0.00	Clear.
30.184	68.5	85.0	66.0	60.0	52.0	.456	Calm	0.00	Cir. cum.
29.954	69.0		68.5	65.0	68.5	.578	S. S. E.	0.13	Rain.
30.006	70.7	97.0	73.5	70.8	65.5	.716	Southwest	0.13	Cir. stratus.
29.986	72.0	80.5	72.5	64.2	55.0	.509	N. N. E.	0.13	Stratus.
30.381	68.0	75.0	59.0	52.0	40.0	.320	E. N. E.	0.13	Cirrus.
30.420	67.5		59.5	56.0	55.0	.418	N. N. E.	0.13	Cum. stratus.
30.128	68.0		70.0	67.0	63.5	.625	Calm	0.00	Cir. stratus.
29.886	71.6	90.0	76.0	70.0	67.0	.661	W. N. W.	0.13	Cir. cum.
30.212	66.0	72.0	56.0	52.0	45.0	.354	N. N. W.	0.52	Cum. stratus.
30.289	65.5	88.0	65.0	59.0	45.0	.439	W. S. W.	0.13	Clear.
30.086	67.6	86.0	75.0	71.0	63.0	.706	Southwest	0.52	Cum. stratus.
30.184	70.0	82.0	71.0	68.0	63.0	.647	E. N. E.	0.06	Stratus.
30.124	70.6		70.0	67.0	70.0	.625	East	0.06	Rain.
30.000	72.5	95.0	78.5	75.0	63.0	.815	Airs	0.06	Cumulus.
30.030	73.2		74.0	72.0	74.0	.753	S. S. E.	0.06	Rain.
29.948	74.0	90.0	81.2	80.0	72.0	.988	Southeast	0.06	Stratus.
29.910	76.0		79.0	76.0	72.0	.849	Southwest	0.13	Cum. stratus.
30.136	75.5		70.0	67.0	70.0	.625	Northeast	0.13	Rain.
30.196	74.2	92.0	74.0	69.0	59.0	.648	N. N. E.	0.26	Clear.
30.066	76.0	102.5	80.0	78.0	71.0	.918	Calm	0.00	Cirrus.
29.906	78.0		84.5	80.0	76.0	.951	Northwest	0.06	Cum. stratus.
30.076	75.0		68.5	67.0	68.5	.642	Airs	0.06	Light rain.
30.078	73.0	93.0	74.5	73.0	66.0	.784	Southwest	0.26	Cum. stratus.
29.820	75.0	96.0	83.5	81.0	69.0	1.006	Southwest	0.20	Cir. cum.
29.856	77.0	96.0	82.0	70.2	66.0	.602	Northwest	0.13	Cirrus
29.995	76.5	95.0	76.5	68.0	62.0	.587	N. N. W.	0.13	Clear.
30.102	77.2	99.0	82.0	77.0	68.0	.854	Calm	0.00	Cirrus.
30.134	80.0	102.0	85.5	78.0	70.0	.856	S. S. W.	0.20	Cir. stratus.
30.085	72.05	90.29	72.99	68.34	62.27	.658			

REMARKS—Continued.

June 19.—At 5*h*. 30*m*. P. M., a violent squall of wind and rain from the southward and westward, with thunder and lightning. At 6*h*. 15*m*., the rain ceased. At 7*h*., a brilliant rainbow; altitude 37° 30′, with supplementary arch, distant 9° 32′. At 7*h*. 25*m*., altitude 40° 40′; distance of supplementary arch, 10° 23′.

June 23.—At 11*h*. 50*m*. P. M., a heavy shower of rain.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1842—Continued.

Days of the month.		Phases of the moon.	3 P. M.								
			Barometer.	Thermometers.					Force of vapor.	Wind.	
				Attached.	Sun.	Dry.	Wet.	Dew point.		Direction.	Force.
			Inches.	°	°	°	°	°	°		*Lbs.*
Wed.	1	☾	30.132	68.0	96.0	73.0	66.0	38.0	.560	West	0.06
Thu.	2		30.236	68.0	94.0	73.5	62.0	41.0	.429	Southeast	0.13
Fri.	3		30.041	69.0	94.0	76.0	67.0	50.5	.508	Southwest	0.06
Sat.	4		29.966	71.5	97.0	81.0	76.0	66.0	.827	Airs	0.06
Sun.	5		29.896	76.2		83.0	73.0	68.0	.691	Southwest	0.06
Mon.	6		29.956	73.0	98.0	78.0	66.2	53.0	.511	N. N. W.	0.13
Tues.	7		30.356	69.5	87.0	68.5	59.0	42.2	.398	N. N. E.	0.13
Wed.	8	●	30.332	67.5		70.0	65.5	60.0	.577	Northeast	0.13
Thu.	9		30.034	71.5	99.0	80.5	74.2	69.0	.763	Southwest	0.13
Fri.	10		29.872	72.0	100.0	80.5	66.0	55.0	.477	West	0.26
Sat.	11		30.186	66.0	85.0	61.8	54.0	42.0	.340	Northwest	0.52
Sun.	12		30.186	66.0	95.0	73.0	66.0	47.0	.460	Southwest	0.26
Mon.	13		30.038	71.2	93.0	86.0	79.0	68.5	.893	Southwest	0.26
Tues.	14		30.162	71.0		77.5	70.0	65.0	.636	East	0.13
Wed.	15	☽	30.028	72.5		77.5	73.5	69.0	.769	Northeast	0.13
Thu.	16		29.978	75.0		82.0	76.0	82.0	.816	W. by S.	0.13
Fri.	17		30.032	74.0		79.0	75.0	79.0	.799	Calm	0.00
Sat.	18		29.880	77.5	94.2	87.5	78.0	71.5	.835	Variable	0.13
Sun.	19		29.850	78.5		84.0	78.0	84.0	.874	Southwest	0.13
Mon.	20		30.056	75.0	94.0	79.5	75.0	65.0	.804	Airs	0.06
Tues.	21		30.156	76.0	104.0	81.6	75.0	60.0	.781	Calm	0.00
Wed.	22	☉	30.036	80.0	110.0	87.0	74.0	62.0	.683	Calm	0.00
Thu.	23		29.862	78.5		75.5	72.0	75.5	.736	Airs	0.06
Fri.	24		30.056	75.5	93.0	76.5	72.0	55.0	.725	Airs	0.06
Sat.	25		30.010	73.0		76.0	72.0	64.0	.730	East	0.13
Sun.	26		29.786	76.0	105.0	85.5	75.0	69.0	.738	West	0.36
Mon.	27		29.836	78.0	102.0	85.5	70.0	64.0	.555	Northwest	0.26
Tues.	28		29.986	79.5	104.0	84.5	74.0	56.0	.710	Southwest	0.13
Wed.	29		30.122	83.5	105.0	90.0	80.0	65.0	.891	W. N. W.	0.06
Thu.	30	☾	30.060	86.0	108.0	93.0	82.0		.946	S. S. W.	0.56
Mean			30.038	73.96	97.96	79.36	71.68	61.42	.662		

REMARKS.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE, 1842—Continued.

9 P. M.									Registering thermom'rs.		Rain or melted snow.
Barometer.	Thermometers.				Force of vapor.	Wind.		Weather.	Maximum.	Minimum.	
	Attached.	Dry.	Wet.	Dew point.		Direction.	Force.				
Inches.	°	°	°	°	°		*Lbs.*		°	°	*Inch.*
30.156	67.5	61.0	56.0	50.0	.401	Calm	0.00	Clear	74.0	51.5	
30.166	68.0	61.5	54.0	45.0	.343	Southeast	0.13	Clear	75.5	49.0	
30.048	69.5	65.5	60.0	56.0	.461	N. by E.	0.06	Cum. stratus	77.5	50.0	
30 006	71.0	71.0	66.0	65.0	.582	Airs	0.06	Cum. stratus	83.8	62.5	0.025
29.868	74.5	74.0	67.0	68.5	.582	Calm	0.00	Cir. stratus	85.5	65.0	
30.056	72.0	68.0	58.0	54.0	.377	N. N. E.	0.13	Cumulus	79.5	65.0	
30.422	68.0	57.5	52.0	63.0	.337	N. N. E.	0.13	Cirrus	72.0	55.0	
30.240	70.0	63.0	59.0	63.0	.461	Northeast	0.13	Rain	70.0	54 0	0.270
29.936	71.2	70.0	66.0	68.5	.592	Calm	0.00	Cum. stratus	82.0	63 0	0.150
29.986	71.0	64.0		48.5		Northwest	0.13	Cumulus	80.5	61.5	
30.286	66.0	55.5	50.0	45 0	.310	Airs	0.06	Clear	66.0	53.0	
30.160	66.0	67.5	57.0	53.0	.354	S. by W.	0.26	Clear	74.0	45.0	
30.138	70.5	67.0	64.4	67.0	.576	Calm	0.00	Rain	87.0	60.0	0.210
30.146	70.6	67.5	64.5	66.0	.573	Calm	0.00	Cum. stratus	78.5	64.0	
30.032	72.5	69.5	67.0	62.0	.631	Northeast	0.06	Cum. stratus	78.5	65.5	0.160
29.988	73.5	69.0	67.0	65.0	.637	Airs	0.06	Cumulus	88.0	66.0	0.205
30.024	73.0	70.0	68.0	69.0	.659	Calm	0.00	Cir. stratus	80.0	68.0	0.260
29.860	76.0	74.0	70.0	71.0	.683	Calm	0.00	Cirrus	87.5	69.0	0.450
29.970	77.5	71.0	69.0	70.0	.682	Southwest	0.13	Cum. stratus	88 0	70.0	0.650
30.136	75.0	71.0	68.0	65.0	.647	Airs	0.06	Cumulus	79.5	70.0	0.018
30.144	76.0	74.0	68.0	68 0	.614	Calm	0.00	Stratus	83.0	69.0	
29.956	79.0	77.2	72.0	71.0	.718	W. S. W.	0.06	Cirrus	87.0	70.0	0.070
29.836	77.0	70.0	68.0		.659	Airs	0.06	Cum. stratus	84.5	68.0	0.507
30.046	75.0	70.5	66.0	56.0	.598	Airs	0.06	Cumulus	78.0	65.0	0.025
29.932	73.1	72.5	68.0	68.0	.631	Calm	0.00	Stratus	80.5	64.0	
29.786	77.0	77.0	73.0	70.0	.757	Calm	0.00	Cirrus	91.3	76.0	
29.891	78.0	76.0	66.0	62.0	.527	Northwest	0.13	Cumulus	86.0	79.5	
29.945	79.0	75.0	68.0	67.0	.603	S. by W.	0.26	Cir. cum.	84.5	67.0	
30.116	82 0	80.0	77.0	61.0	.877	Calm	0.00	Clear	92.0	67.5	
30.062	83.0	80.0	75.0	68.0	.799	Southwest	0.36	Cirrus	97.0	74.0	
30.045	73.41	69.66	64.93	62.23	.575				81.70	63.57	3.000

REMARKS.

METEORS OBSERVED, NOVEMBER 12 AND 13, 1838.

From noon till 4*h*. P. M., cloudy, with frequent light southerly showers. For half an hour before sunset, the western sky brightened, and the setting was clear; the eastern sky, however, still covered with cirro-strati. At 7*h*. P. M., the clouds were evidently passing off with a light air from the north; and at 10*h*. P. M., except around the horizon, the heavens were perfectly clear; indeed, till near 11*h*., there was presented an unusually luminous appearance. Till this time, there were no indications whatever of a return of the meteors In the following table are given the most remarkable which were seen between this time and 4*h*. A. M., together with such observations as could be made. Those which were too faint to be thus defined are given in the notes which follow.

Time.	No.	Point of apparition.	Point of vanishing.	Barometer.	Thermometer.	Hygrometer.	Wind.		Character.
							Direction.	Force.	
h. m.				*Inches.*	°	°			
11 15	1	ζ Ursæ Major	λ Ursæ Majoris.	30.148	47.0	43.0	Southward	Light	V'y bright.
12 10	1	α Leporis	α Forn. chem.	30.156	48.5		Southward	Light	V'y bright.
12 20	1	α Ursæ Majoris.	Polaris				Southward	Light	Faint.
12 30	1	μ Geminorum	η Orionis				Southward	Light	V'y bright.
12 35	1	η Orionis	γ Eridani	30.154	46.4	45.0	Southward	Light	Brilliant.
1 13	1	β Orionis .	ζ Arietis		46.6		Southward	Light	Brilliant
2 25	1	19 Argo Navis.	ε Pixis Nauti	30.152	46.8		Southward	Light	V'y bright.

From 0*h*. 35*m*. to 1*h*. A. M., there were counted four to the south of Orionis, and five crossing Cassiopiæ, all faint, and of momentary duration. In the ten minutes following, there were four others observed in the constellation Cancri, and radiating from near the Presepe. At 1*h*. 17*m*., the heavens were almost entirely obscured by clouds and mist. At 1*h*. 50*m*., clearing away to the south; a bright meteor, radiating from near α Canis Minoris, disappeared behind a cloud covering α Canis Majoris, and reappeared when a short distance beyond it. 2*h*. 00*m*., the heavens were again obscured. 2*h*. 10*m*., counted eight in various constellations. 3*h*. To this time, four others have been seen, all faint, and passing across Orionis; clouds and mist again obscuring the heavens. 3*h*. 15*m*., stars of the first magnitude only, and they near the zenith, visible. 3*h*. 45*m*., somewhat clear. Whenever a break in the clouds occurred, there were seen occasional flashes of light reflected on their edges, and somewhat resembling faint lightning; could distinguish but three to this time. 4*h*., again thick, and so continued till daylight. From the foregoing, it is concluded that, had the weather been favorable, the number of meteors seen would probably have been as great as at any periodical return since the memorable fall of 1833, and that their origin is evidently beyond the region of the clouds.

METEORS OBSERVED, APRIL 19, 1841.

In accordance with arrangements proposed by Mr. S. C. Walker, of the High School Observatory at Philadelphia, the evenings of the 19th, 20th, and 21st April, from 11 P. M. to midnight, were appointed for the observation of meteors, or falling stars, with a view to determine their relative velocity, the difference of meridians, and such other points of interest as might offer themselves.

Until nearly sunset of the 19th, the sky continued beautifully clear, a light northwest wind taking all vapors from our atmosphere, and leaving the heavens distinct to the extreme verge of the horizon. At this time, the wind changed to south-southwest, bringing a haze over us gradually, till, at 11 o'clock P. M. there were no stars of any magnitude visible within 15° of the horizon, nor any stars smaller than the 5th magnitude above that space.

During the afternoon of that day, all the adjustments of the great transit were examined, and the minute error of collimation corrected, which was found to exist.

Among the thirty transits observed, the following seven standard stars were included, to determine the time, viz: *α* Leonis; *α* Ursæ Maj.; *δ* Leonis; *δ* Hydræ et Crat; *γ* Cephei, (Sub. Polo;) *β* Leonis, and *γ* Ursæ Maj.; the chronometer used having a rate of + 2''.25 daily, on sidereal time, as ascertained by preceding and subsequent observations. The mean error, corresponding to the middle time between the transits of *α* Leonis and *γ* Ursa Maj., (viz: 10*h*. 52*m*., sidereal time,) was found to be + 0*h*. 00*m*. 14.25*s*. of true sidereal time at this meridian.

The portion of the heavens selected for observation was embraced between the zenith and a line passing through the east-southeast and north-northwest points of the horizon, the eastern section having occupied the attention of Lieutenant W. H. Ball, U. S. N., and the northern section being under my observance. Passed Midshipmen Avery and Wise were very careful in noting the time and recording the observations, as directed by each observer; the approximate position of each meteor being immediately referred to a celestial globe, to avoid errors of judgment as to their locality.

In addition to the following, four or five other meteors were seen, but were so faint, so near to others in time, or so distant from the allotted space of observation, that no record was made of them. In no case did the duration amount to a second of time, for the measurement of which, a micro-chronometer noting thirds had been prepared.

The time was recorded by the sidereal chronometer, and has subsequently been reduced to mean time by two different computers, the proportional part for rate being applied in each instance.

At midnight there were no stars visible within 30° of the horizon, but overhead the atmosphere continued as at the commencement of the observations.

Barometer, 29.990 inches; attached thermometer, 58°.5; external thermometer, 45°.0; dew point, 42°.0.

The evenings of the 20th and 21st were both cloudy.

Mean time of apparition.	Point of apparition.	Point of vanishing.	Mean time of vanishing.	Remarks.
h. m. sec.			*h m. sec.*	
Not noted	Draconis	Draconis	Not noted	Faint and indistinct.
11 02 41.9	*τ* Corona Bor.	*γ* Corona Bor.	11 02 42.6	Bright as a star of 3d magnitude; left a train its whole length.
11 07 21.2	*φ* Draconis	λ Ursæ Min.	11 07 21.9	Third magnitude, increasing in brightness till its explosion.
11 24 04.3	42 & 43 Camelopardi		11 24 04 3	Fifth magnitude.
11 24 23.4	*σ* Draconis	Not noted	11 24 23.6	
11 31 00.2	*θ* Bootes	*α* Draconis	11 31 00 2	
11 31 01.7	Not noted	70 Herculis	11 31 01.7	
11 32 45.9	*ξ* Corona Bor.	Not noted	11 32 45.9	
11 35 00.5	*φ* Ursæ Maj.	Not noted	11 35 00.5	First magnitude.
11 35 31.4	*π* Corona Bor.	Not noted	11 35 31.4	
11 39 37.7	*χ* Draconis	λ Draconis	11 39 37 8	Second magnitude.
11 43 11.1	137 (C. H.) Ursæ Maj.		11 43 11.2	
11 52 04.7	*κ* Ursæ Maj.	26 Lyncis	11 52 04.7	Nearly as bright as Mars.
11 54 26.3	*α* Ophiuchi		11 54 26.3	Desce'd almost vertically about 5°, and appeared to explode. This may have arisen from its being behind the clouds.
11 39 52.7	*α* Serpentis	Not noted	11 39 52.7	

METEORS OBSERVED, NOVEMBER 12, 1841.

Mean astronomical time, Washington.			Star near which it was seen.	Brightness.	
h.	*min.*	*sec.*			
10	50	10.7	ζ Ceti	3	
10	59	55.2	ζ Ceti	4	
11	16	48.2	63 Orionis	3	
12	32	34.2	Pleiades	2	
12	41	23.2	Polaris	2	
15	07	08.2	Comæ Ber.		
15	28	33.2	7 Geminor.	2	Left a bright train.
15	38	07.3	3 Canis Maj.	3	
16	00	56.2	ζ Canis Min.	4	
16	28	21.2	ζ Canis Maj.	4	
16	55	24.2	α Hydræ	5	
16	58	06.7	ζ Ursæ Maj.	4	
17	00	03.7	Cor. Caroli	4	
17	51	52.7	Polaris	4	
17	52	04.2	7 Cephei	4	
18	45	52.2	6 Canis Maj.	4	

BAROMETRIC CHANGES, MAY 2, 1842.

Time.		Barometer.	Wind.		Time.		Barometer.	Wi	
			Direction.	Force.				Direction.	
h.	*m.*	*Inches.*			*h.*	*m.*	*Inches.*		
0	25	29.514	S. S. E.	Fresh.	1	05	29.494		
0	30	29.472			1	10	29.522		
0	35	29.432	S. S. W.	Fresh.	1	15	29.536	West	Fr
0	40	29.420			1	20	29.538		
0	45	29.438	S. S. W.	Fresh.	1	30	29.554	W. N. W.	Fr
0	50	29.444			1	40	29.566		
0	55	29.480	W. S. W.	Fresh.	1	50	29.584	N. W.	Fr
1	P. M.	29.488			2	00	29.590		

METEOROLOGICAL OBSERVATIONS,

TAKEN

AT THE OBSERVATORY, WASHINGTON,

BI-HOURLY,

FROM JANUARY 1, 1842, TO JUNE 30, 1842.

JANUARY 1, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*	
5 55	0 07			37.0	34.0	.180	Cumuli	7	Southwest
7 55	2 07			36.0	33.0	.173	Cirro-cumuli	4	Southwest
9 55	4 07			34.5	32.5	.180	Clear	0	W. by N.
Noon	6 07			32.5	32.0	.171	Clear	0	S. S. E
13 55	8 07		33.5	30.0			Clear	0	S. W. by E
15 55	10 07		49.0	35.0			Clear	0	Southwest
17 55	Noon	52.0	66.0	39.0			Clear	0	Southwest
19 55	14 07	58.0	70.0	42.0	38.0	.200	Clear	0	Southwest
21 55	16 07	44.0	48.0	41.5	38.0	.206	Clear	0	Southwest
23 55	18 07			39 5	34.0	.151	Clear	0	Southwest
1 55	20 07			32.0			Clear	0	Southwest
3 55	22 07			33.0	31.5	.179	Clear	0	Southwest

JANUARY 2, 1812.

5 55	0 07			32.0			Clear	0	South
7 55	2 07			34.0	32.0	.179	Stratus		S. S. W.
9 55	4 07			35.0	33.0	.185	Stratus		S. S. W
Noon	6 07			34.5	32.0	.175	Stratus		S. S. W
13 55	8 07			33.0	32.0	.189	Cirro-stratus	9	S. S. W.
15 55	10 07	48.0	46.0	37.0	35.0	.200	Cirrus	9	S. S. W.
17 55	Noon	48.0	50.0	45.0	42.0	.249	Cirro-stratus	9	S. W. by S.
19 55	14 07	53.0	54.0	46.5	44.0	.276	Cirro-stratus	8	S. S. W.
21 55	16 07			47.0	42.0	.227	Cirro-stratus	9	S. S. W.
23 55	18 07			43.0	39.0	.210	Cirro-stratus	9	Southwest
1 55	20 07			45.0	40.0	.208	Cirro-stratus	9	Southwest
3 55	22 07			45.0	40.0	.208	Cirro-stratus	9	Southwest

JANUARY 3, 1842.

5 55	0 07			36.0	32.5	.163	Dense clouds	10	W. by S.
7 55	2 07			32.0	30.0	.166	Dense clouds	10	W. by N.
9 55	4 07			27.5	26.0	.146	Dense clouds	10	Northwest
Noon	6 07			25.5			Cumuli	8	Northwest
13 55	8 07			24.5			Cumulo-stratus	8	Northwest
15 55	10 07	52.5	40.0	25.0			Cirro-cumulus	5	Northwest
17 55	Noon			26.0			Cirrus	2	W. N. W.
19 55	14 07	50.0	42.0	28.0			Cirro-cumulus	3	Northwest
21 55	16 07			27.5			Cirro-cumulus	3	W. by S.
23 55	18 07			27.0			Stratus	3	South
1 55	20 07			26.5			Stratus	6	South
3 55	22 07			26.5			Stratus	6	S. S. W.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY 4, 1842.

solar time.	Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
0 07			26.0			Cumuli	10	Southwest	0.52
2 07			26.0			Cumuli	10	S. W. by S.	0.39
4 07			27.0			Cumuli	10	S. W. by S.	0.26
6 07			29.0			Cumuli	10	S. W. by S.	0.52
8 07			32.0			Stratus	9	S. W. by S.	0.52
10 07	41.0	44.0	37:0	36.0	.219	Cirro-stratus	10	S. W. by S.	0.26
Noon	46.0	44.0	43.0	41.0	.252	Cirro-stratus	10	S. W. by S.	0.18
14 07	67.0	70.0	45.0	41.0	.229	Cumulo-stratus	5	S. W. by S.	0.18
16 07	58.0	53.0	47.5	41.0	.201	Clear	0	West	0.13
18 07			44.5	38.0	.173	Clear	0	Calm	0.00
20 07			40.0	35.0	.166	Clear	0	W. by N.	0.26
22 07			38.5	33.5	.153	Clear	0	W. N. W.	0.52

JANUARY 5, 1842.

solar time.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
0 07			33.7	32.5	.189	Clear	0	Northwest	0.52
2 07			29.5			Cumuli	1	W. N. W.	0.52
4 07			26.5			Cirro-cumulus	3	W. N. W.	0.13
6 07			24.5			Cirro-cumulus	1	W. N. W.	0.13
8 07	33.5	28.0	28.0			Cirrus	1	W. by N.	0.06
10 07	42.0	34.0	28.0			Cirro-stratus	10	Northwest	0.56
Noon		32.0	31.0			Cirro-stratus	10	Northwest	0.13
14 07	48.0	46.0	32.5			Cirro-stratus	8	W. by N.	0.06
16 07	50.0	42.0	33.0			Cirro-cumulus	8	W. by N.	0.06
18 07			29.0			Clear	0	W. N. W.	0.06
20 07			26.0			Clear	0	Calm	0.06
22 07			24.0			Clear	0	Calm	0.06

JANUARY 6, 1842.

solar time.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
0 07			22.0			Clear	0	Calm	0.00
2 07			21.0			Clear	0	Calm	0.00
4 07			22.0			Cirro-stratus	3	Calm	0.00
6 07			22.0			Cirro-stratus	5	North	0.12
8 07			22.0			Cirro-stratus	9	North	0.18
10 07	36.0	36.0	32.0			Cumulo stratus	10	Southeast	0.06
Noon	36.0	36.0	35.0	33.0	.184	Cumulo-stratus	10	South	0.06
14 07		38.0	37.0	36.0	.219	Cumulo-stratus	10	S. S. W.	0.12
16 07		36.0	35.0	32.5	.175	Hail and snow	10	S. S. W.	0.06
18 07			34.0	32.0	.169	Hail and snow	10	S. W. by S.	0.06
20 07			35.0			Rain	10	N. by E.	0.06
22 07			35.0	34.0	.203	Rain	10	N. N. E.	0.18

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
JANUARY 7, 1842.									
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*	
5 55	0 07			37.0	36.5	.228	Rain	10	E. by S.
7 55	2 07			38.0	37.0	.227	Rain	10	E. by S.
9 55	4 07			39.0	38.0	.235	Rain	10	Southeas
Noon	6 07			39.0	38.0	.235	Rain	10	Southeas
13 55	8 07			41.0	40.0	.253	Cirro-stratus	10	S. S. W.
15 55	10 07			43.5	42.0	.266	Rain	10	Calm
17 55	Noon			43.5	40.5	.235	Rain	10	W. by S
19 55	14 07			40.0	39.0	.244	Rain	10	W. by N
21 55	16 07			39.5	39.0	.249	Rain	10	W. by S
23 55	18 07			38.5	36.5	.212	Rain	10	Southwes
1 55	20 07			37.5	36.0	.213	Rain	10	Southwes
3 55	22 07			37.0	35.0	.199	Rain	10	S. W. by S
JANUARY 8, 1842.									
5 55	0 07			36.0	35.0	.211	Cumuli	10	S. W. by W
7 55	2 07			35.5	33.5	.187	Cumuli	10	Southwest
9 55	4 07			35.0	33.0	.174	Cumuli	10	Southwes
Noon	6 07			35.0	33.5	.193	Cumuli	10	South
13 55	8 07		37.0	36.0	34.0	.181	Cumuli	10	Southeas
15 55	10 07		39.0	37.5	35.5	.208	Stratus	10	E. S. E
17 55	Noon		42.0	40.0	37.0	.204	Stratus	10	E. S. E
19 55	14 07		41.0	39.5	37.0	.210	Stratus	10	East
21 55	16 07			37.5	36.0	.213	Stratus	10	East
23 55	18 07			35.0	35.0	.222	Rain	10	East
1 55	20 07			35.0	34.5	.212	Rain	10	Calm
3 55	22 07			35.5	35.0	.216	Stratus	10	Calm
JANUARY 9, 1842.									
5 55	0 07			36.0	35.5	.220	Stratus	10	S. S. E.
7 55	2 07			37.5	36.0	.213	Stratus	10	Calm
9 55	4 07			38.5	37.0	.221	Stratus	10	S. W. by S
Noon	6 07			39.0	37.5	.225	Stratus	10	S. W. by S
13 55	8 07		40.5	40.0	38.0	.223	Stratus	10	S. W. by S
15 55	10 07	78.0	62.0	43.0	42.0	.272	Cumuli	7	W. S. W.
17 55	Noon	68.0	66.0	51.0	50.0	.362	Cirrus	2	W. S. W
19 55	14 07	60.0	70.0	56.0	50.0	.305	Cirrus	2	W. by N
21 55	16 07	52.5	50.0	50.0	46.0	.280	Cumulo-stratus	8	W. by N
23 55	18 07			48.0	46.0	.303	Stratus	10	W. by N.
1 55	20 07			46.5	45.0	.297	Stratus	10	E. S. E.
3 55	22 07			45.0	42.0	.249	Stratus	10	E. S. E

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY 10, 1842.

a solar time.		Thermometers.								
	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
n.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			43.0	41.0	.251	Stratus	10	E. S. E.	0.13
55	2 07			41.0	40.0	.253	Stratus	10	E. S. E.	0.13
55	4 07			38.0	37.0	.227	Rain	10	Northeast	0.13
n	6 07			37.0	36.5	.228	Rain	10	N. N. E.	0.13
55	8 07			37.0	36.0	.219	Rain	10	N. N. E.	0.13
55	10 07			37.0	36.5	.228	Rain	10	N. N. E.	0.52
55	Noon			37.0	36.0	.219	Rain	10	E. S. E.	0.52
55	14 07			37.0	36.0	.219	Rain	10		0.26
55	16 07			37.0	36.0	.219	Cumuli	10	N. N. W.	0.26
55	18 07			36.5	35.0	.205	Cumuli	10	North	0.26
55	20 07			36.5	34.5	.195	Stratus	10	W. by N.	0.06
55	22 07			35.0	34.0	.203	Stratus	10	Calm	0.00

JANUARY 11, 1842.

55	0 07			35.5	34.0	.197	Stratus	10	Calm	0.00
55	2 07			35.0	34.0	.203	Stratus	10	Calm	0.00
55	4 07			35.0	34 0	.203	Stratus	10	N. by E.	0.06
n	6 07			35.0	34.0	.203	Snow	10	N. by E.	0.06
55	8 07			33.0	32.0	.189	Snow	10	Northeast	0.06
55	10 07			35.5	35.5	.226	Snow	10	Northeast	0.06
55	Noon			38.5	37.0	.221	Snow	10	E. S. E.	0.06
55	14 07			41.5	38.0	.206	Stratus	10	Calm	0.00
55	16 07			37.5	35.5	.203	Stratus	10	Calm	0.00
55	18 07			34 5	33.0	.190	Stratus	3	S. S. E.	0 06
55	20 07			33.5	32.0	.184	Stratus	9	Southwest	0.06
55	22 07			33.0	32.0	.189	Cumuli	10	W. S. W.	0.26

JANUARY 12, 1842.

55	0 07			32.0			Stratus	7	West	0.26
55	2 07			31.5			Stratus	6	West	0.26
55	4 07			30.0			Stratus	3	W. S. W.	0.26
n	6 07			31.0			Stratus	4	W. S. W.	0.26
55	8 07		32.5	32.0			Stratus	5	S. S. W.	0.26
55	10 07	60 0	50.0	36.5	32.5	.157	Clear	0	S. S. W.	0.13
55	Noon	57.0	41.0	40.0	32.5	.119	Cumulo-stratus	5	Southwest	0.13
55	14 07	51.0	48.0	45.0	37.0	.148	Cumulo-stratus	5	Southwest	0.13
55	16 07			43.5	39.0	.205	Cumulo-stratus	7	Southwest	0.26
55	18 07			41.0	37.0	.193	Stratus	10	Southwest	0.13
55	20 07			40.0	38.0	.224	Stratus	10	East	0.13
55	22 07			37.0	36.0	.219	Stratus	10	N. N. W.	0.13

JANUARY 13, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5 55	0 07			37.0	35.0	.200	Cumulo-stratus	4	Calm	0.00
7 55	2 07			36.0	34.0	.192	Cumulo-stratus	4	Calm	0.00
9 55	4 07			35.0	33.0	.184	Clear	0	N. N. W.	0.13
Noon	6 07			31.0			Clear	0	W. N. W.	0.26
13 55	8 07		32.0	31.0			Clear	0	W. N. W.	0.26
15 55	10 07	56 0	44.0	32.0			Clear	0	Northwest	0.13
17 55	Noon	49.0	46.0	32.0			Clear	0	Northwest	0 13
19 55	14 07	54.0	52.0	35.5	34.0	.197	Clear	0	Northwest	0.13
21 55	16 07		50.0	37.0	32.5	.169	Clear	0	Northwest	0.06
23 55	18 07			33.0			Clear	0	Northwest	0.06
1 55	20 07			30.0			Clear	0	Calm	0.00
3 55	22 07			29 5			Clear	0	Northwest	0.06
JANUARY 14, 1842.										
5 55	0 07			29.0			Clear	0	Northwest	0.06
7 55	2 07			29.0			Clear	0	Northwest	0.13
9 55	4 07			29.0			Clear	0	W. by N.	0.26
Noon	6 07			30.5			Clear	0	W. by N.	0.52
13 55	8 07		36.0	34.0			Cumulo stratus	9	West	0.52
15 55	10 07		40.0	38.5	36.0	.202	Cumulo-stratus	10	S.W. by W.	0.78
17 55	Noon		42.0	42.5	39.5	.228	Cumulo-stratus	10	S.W. by S.	1.04
19 55	14 07		45 5	45.0	42.0	.249	Cumulo-stratus	10	Southwest	1.36
21 55	16 07		46.0	46.0	43.0	.259	Cumulo-stratus	9	Southwest	1.04
23 55	18 07			44.0	42.0	.261	Cumulo stratus	8	Southwest	1.56
1 55	20 07			44.0	42.5	.271	Stratus	4	Southwest	1.56
3 55	22 07			41.5	39.0	.227	Clear	0	S.W. by S.	0.06
JANUARY 15, 1842.										
5 55	0 07			39.5	38.0	.229	Clear	0	S. S. W.	0.26
7 55	2 07			37.0	35.5	.209	Clear	0	S. S. W.	0.26
9 55	4 07			35.0	34.0	.203	Clear	0	W. N. W.	0.13
Noon	6 07			34.5	32.0	.174	Clear	0	Northwest	0.52
13 55	8 07	38.0	36.0	35.0	32.0	.169	Stratus	0	Northwest	0.52
15 55	10 07	51.0	41.0	38.5	37.0	.221	Cumulo-stratus	8	N.W. by W.	0.52
17 55	Noon	52.0	42.0	39.5	37.0	.210	Cumulo-stratus	6	W. N. W.	0.52
19 55	14 07	45.0	44.0	39.5	37.0	.210	Cumulo-stratus	8	W. N. W.	0.52
21 55	16 07		38.0	38.0	37.0	.227	Stratus	10	W. N. W.	0.26
23 55	18 07			36.5	34.0	.186	Clear	0	W. N. W.	0.13
1 55	20 07			32.0	31.0	.182	Clear	0	N. N. W.	0.13
3 55	22 07			32.0	32.0	.199	Clear	0	N. N. W.	0.13

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY 16, 1842.

ean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			30.0			Clear	0	N. by E.	0.13
55	2 07			30.0			Cumulo stratus	3	N. by E.	0.13
55	4 07			30.0			Cumulo-stratus	5	Southwest	0.13
oon	6 07			30.0			Cumulo-stratus	7	Southwest	0.13
55	8 07			30 0			Cumulo-stratus	9	Southwest	0.13
55	10 07		38 0	34 0	34 0	.214	Cumulo-stratus	9	S. W. by S.	0 06
55	Noon		58.0	41.0	36.0	.174	Cumuli	7	W. by N.	0.13
55	14 07		48 0	43.0	38.0	.190	Cumuli	6	West	0.13
55	16 07		48.0	41.5	36.0	.168	Clear	0	W. N. W.	0.26
55	18 07			37.0	32 0	.149	Clear	0	Northwest	0.06
55	20 07			33.0			Clear	0	Northwest	0.06
55	22 07			28.5			Clear	0	Calm	0.00

JANUARY 17, 1842.

ean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
55	0 07			28.5			Clear	0	Calm	0.00
55	2 07			26.0			Clear	0	Calm	0.00
55	4 07			26.0			Clear	0	Calm	0.00
oon	6 07			27.0			Clear	0	Calm	0.00
55	8 07	36.0	30.0	27.5			Clear	0	Calm	0.00
55	10 07	54.0	52.0	33.0	32.0	.189	Clear	0	S. W. by S.	0.13
55	Noon	54.0	53.5	41.5	39.0	.227	Clear	0	S. W. by S	0.78
55	14 07	57.0	58.0	45.0	42.0	.249	Clear	0	Southwest	0.78
55	16 07	52.0	54.0	45.5	42.0	.243	Clear	0	S. S. W.	0.52
55	18 07			40.5	38.0	.218	Clear	0	S. S. W.	0.52
55	20 07			37.5	34.0	.174	Clear	0	S. S. W.	0.06
55	22 07			37.0	35.0	.199	Clear	0	S. S. W.	0.26

JANUARY 18, 1842.

ean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
55	0 07			35.0	32.5	.175	Clear	0	Southwest	0.26
55	2 07			33.0			Clear	0	Southwest	0.13
55	4 07			31.0			Clear	0	S. S. W.	0.13
oon	6 07			29.0			Clear	0	Calm	0.00
55	8 07	36.0	34.5	29.5			Clear	0	Calm	0.00
55	10 07	61.0	61.0	36.0	32.0	.158	Clear	0	Calm	0.00
55	Noon	72 0	67.0	43.0	41.0	.251	Clear	0	Calm	0.00
55	14 07	77.0	78.0	50.5	47.0	.298	Clear	0	Calm	0.00
55	16 07	64.0	65.0	53.0	47.5	.281	Clear	0	S. S. E.	0.06
55	18 07			48.0	42.0	.215	Clear	0	Calm	0.00
55	20 07			41.0	39.0	.232	Clear	0	Calm	0.00
55	22 07			38.0	34.0	.168	Clear	0	Calm	0.00

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY 19, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	h. m.	°	°	°	°	Inch.		10th.	
5 55	0 07			34.0	33.0	.196	Clear	0	Calm
7 55	2 07			31.5	31.0	.187	Clear	0	Calm
9 55	4 07			31.0			Clear	0	Calm
Noon	6 07			28.0			Clear	0	Calm
13 55	8 07			28.0			Clear	0	Calm
15 55	10 07	64.0	56.0	35.0	32.0	.169	Cirro stratus	6	Calm
17 55	Noon	60.0	62.0	47.0	44.5	.281	Cirro-stratus	4	Southwest
19 55	14 07	70.0	76.0	53.5	48.0	.287	Clear	0	Calm
21 55	16 07	66.0	76.0	56.0	49.5	.294	Clear	0	Calm
23 55	18 07		68.0	50.0	42.0	.216	Clear	0	Calm
1 55	20 07			44.5	40.0	.214	Clear	0	Calm
3 55	22 07			41.0	37.5	.203	Clear	0	Calm

JANUARY 20, 1842.

5 55	0 07			39 5	36.5	.200	Clear	0	Calm
7 55	2 07			39.0	36 0	.196	Clear	0	Calm
9 55	4 07			39.0	36.0	.196	Clear	0	Calm
Noon	6 07			40.0	38 0	.224	Clear	0	Calm
13 55	8 07	42.0	46.0	40.0	38.0	.224	Clear	0	Calm
15 55	10 07	60.0	64.0	46.0	45.0	.303	Stratus	3	S. S. W.
17 55	Noon	70.0	72.0	56.5	54.0	.400	Cumulo stratus	5	S. W. by S
19 55	14 07	65.0	66.0	63.5	61.0	.514	Cumuli	10	Southwest
21 55	16 07		63.5	63.0	60 0	490	Rain	10	Southwest
23 55	18 07			55.0	52.0	.366	Rain	10	S. W. by W.
1 55	20 07			55.0	52.0	.367	Cumuli	10	Southwest
3 55	22 07			53.0	50.0	.340	Cumuli	10	Southwest

JANUARY 21, 1842.

5 55	0 07			51.0	49.0	.339	Stratus	4	South
7 55	2 07			50.0	48.5	.339	Stratus	3	South
9 55	4 07			48.0	46.0	.304	Cumuli	10	W. S. W.
Noon	6 07			43.5	41.0	.247	Rain	10	N. W. by W
13 55	8 07			41.0	38.5	.223	Cumuli	10	W. N. W
15 55	10 07			42.0	36.0	.163	Cumulo-stratus	4	S. S. W.
17 55	Noon	49.0	50.0	43.0	37.0	.171	Cumulo stratus	4	S. S. W.
19 55	14 07	52.0	52.0	45.5	37.0	.143	Cumulo-stratus	4	S. S. W.
21 55	16 07	45.0	46.0	45.0	42.0	.249	Cumulo stratus	2	S. S. W.
23 55	18 07			42.0	39.0	.221	Cumulo-stratus	2	S. S. W.
1 55	20 07			37.0	34.0	.180	Clear	0	S. S. W.
3 55	22 07			36.0	33.0	.173	Clear	0	S. S. W.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY 22, 1842.

ean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
. m.	h. m.	°	°	°	°	*Inch.*		10*th*.		*Lbs.*
55	0 07			35.0	31.0	.152	Cumulo-stratus	3	S. S. W.	0.13
55	2 07			33.0	30.0	.156	Clear	0	S. S. W.	0.13
55	4 07			31.0			Clear	0	S. S. W.	0.13
oon	6 07			29.0			Clear	0	S. S. W.	0.13
55	8 07			29.0			Clear	0	S. S. W.	0.13
55	10 07	47.0		37.5			Clear	0	S. S. W.	0.78
55	Noon	48.0	80.0	39.5	34.0	.151	Cumuli	3	S. S. W.	0.13
55	14 07	52.0	84.0	40.0	34.0	.146	Clear	0	S. S. W.	0.26
55	16 07	50.0	80.0	40.0	32.5	.119	Clear	0	S. S. W.	0.52
55	18 07			32.0			Clear	0	S. S. W.	0.52
55	20 07			32.0			Clear	0	S. S. W.	0.13
55	22 07			28.0			Clear	0	S. S. W.	0.13

JANUARY 23, 1842.

55	0 07			28.0			Clear	0	Calm	0.00
55	2 07			28.0			Clear	0	Calm	0.00
55	4 07			26.0			Clear	0	Calm	0.00
oon	6 07			22.0			Clear	0	Calm	0.00
55	8 07			21.0			Clear	0	West	0.06
55	10 07	54.0	72 0	21.0			Cirro-stratus	4	N. W. by W.	0.52
55	Noon	57.0	73.0	28.0			Cirro-stratus	6	Northwest	0.52
55	14 07	44.0	58.0	29.0			Cirro stratus	8	Northwest	0.39
55	16 07	32.0	42.0	27.5			Cirro-stratus	7	Northwest	0.52
55	18 07			24.0			Clear	0	Northwest	0.13
55	20 07			22.5			Clear	0	E. S. E.	0.06
55	22 07			19.0			Clear	0	West	0.06

JANUARY 24, 1842.

55	0 07			18.0			Clear	0	West	0.06
55	2 07			17.5			Clear	0	West	0.06
55	4 07			15.0			Clear	0	Calm	0.00
oon	6 07			13.0			Clear	0	Calm	0.00
55	8 07			12 5			Clear	0	Calm	0.00
55	10 07	50.0	72.0	21.5			Clear	0	East	0.13
55	Noon	47.0	70.0	24.5			Clear	0	East	0.13
55	14 07	42.0	73 0	28.0			Clear	0	S. S. W.	0.13
55	16 07	36.0	52.0	29.0			Clear	0	S. S. W.	0.13
55	18 07			27 0			Clear	0	S. S. W.	0.13
55	20 07			24.0			Clear	0	S. S. E.	0.13
55	22 07			22.0			Cumulo stratus	5	Calm	0.00

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY 25, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*	
5 55	0 07			22.0			Clear	0	Calm
7 55	2 07			21.0			Clear	0	Calm
9 55	4 07			21.5			Clear	0	Calm
Noon	6 07			23.0			Cumulo stratus	3	S. S. W.
13 55	8 07			24.5			Cumulo-stratus	3	S. S. W
15 55	10 07	48.0	66.0	31.0			Cirro-stratus	3	Southwest
17 55	Noon		42.0	36.0	36.0	.230	Cirro-stratus	10	Southwest
19 55	14 07		40.0	37.0	34.0	.180	Stratus	10	Southwest
21 55	16 07		36.0	36.5	32.5	.157	Stratus	10	Southwest
23 55	18 07			35.0	32.0	.169	Stratus	10	Southwest
1 55	20 07			35.0	32.0	.169	Stratus	10	Southwest
3 55	22 07			35.0	32.0	.169	Stratus	10	Southwest

JANUARY 26, 1842.

5 55	0 07			35.0			Stratus	10	Southwest
7 55	2 07			35.0			Stratus	10	Southwest
9 55	4 07			34.5			Stratus	10	Southwest
Noon	6 07			34.5			Stratus	10	Southwest
13 55	8 07			31.0			Cumulo-stratus	10	Southwest
15 55	10 07	38.0	47.0	36.0	34.0	.192	Cirro-stratus	8	S. W. by S.
17 55	Noon	54.0	60.0	39.5	38.0	.229	Cirro-stratus	8	S. S. W
19 55	14 07	52.0	57.0	45.0	43.0	.271	Cirro-stratus	10	S. by E.
21 55	16 07		44.0	42.0	40.0	.242	Cirro-stratus	9	S. S. E.
23 55	18 07			37.0	35 0	.200	Cirro-stratus	6	S. S. E.
1 55	20 07			38.8	37.0	.218	Cirro-stratus	10	Southwest
3 55	22 07			38.0	37.0	.227	Cirro-stratus	10	Southwest

JANUARY 27, 1842.

5 55	0 07			37.0	35.0	.200	Cirro stratus	9	S. W. by S.
7 55	2 07			37.5	35.0	.194	Cirro-stratus	8	Southwest
9 55	4 07			36.0	34.0	.192	Clear	0	W. N. W.
Noon	6 07			35.0	33.5	.193	Clear	0	N. W. by W.
13 55	8 07	40.0	44.0	35.0	33.0	.185	Clear	0	Northwest
15 55	10 07	54.0	74.0	36.5	33.0	.167	Cumuli	1	Southwest
17 55	Noon	49.0	74.0	38.5	33.0	.144	Cumuli	2	Southwest
19 55	14 07	47.0	75.0	40.0	33.0	.127	Cumuli	3	N. W. by W.
21 55	16 07	46.0	52.0	40.0	33.0	.127	Cumuli	3	W. by N.
23 55	18 07			39.0	32.0	.128	Cumulo-stratus	4	W. by N.
1 55	20 07			33.0	30.0	.156	Cumulo stratus	3	Calm
3 55	22 07			32.0	31.5	.191	Clear	0	Calm

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JANUARY 28, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Gottingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	*h. m.*	°	°	°	°	*Inch.*		*10th.*		*Lbs.*
5 55	0 07			30.0			Clear	0	Calm	0 00
7 55	2 07			26.0			Clear	0	Calm	0.00
9 55	4 07			23.0			Clear	0	Calm	0 00
Noon	6 07			21.0			Clear	0	Calm	0 00
13 55	8 07			21.5			Clear	0	Calm	0.00
15 55	10 07	52.0	68 0	32.0			Cirrus	6	S. S. W.	0.13
17 55	Noon	58 0	68.0	42.5	38.0	.195	Cirrus	6	S. S. W.	0.13
19 55	14 07	60.0	68.0	45.5	40.0	.201	Cirrus	6	S. S. W.	0.13
21 55	16 07	50.0	64.0	45.5	40.0	.201	Clear	0	S. S. W.	0.06
23 55	18 07			42.0	38.0	.200	Clear	0	S S. W.	0.06
1 55	20 07			38.5	32.5	.135	Clear	0	S. S. W.	0.06
3 55	22 07			40.0	34.0	.146	Clear	0	S. S. W.	0.26

JANUARY 29, 1842.

Gottingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			40.5	38.0	.218	Cumuli	5	S. S. W.	0.26
7 55	2 07			42.0	40.0	.241	Stratus	10	S. S. W.	0 13
9 55	4 07			42.0	40 0	.241	Stratus	10	S. S W.	0.06
Noon	6 07			42.0	40 0	.241	Stratus	10	S. S. W.	0.06
13 55	8 07			4[illegible].0	42.0	.272	Cumulo-stratus	10	S. S. W.	0.06
15 55	10 07		54.0	49.0	48 0	.338	Cumulo-stratus	9	Southwest	0.13
17 55	Noon	54.0	60.0	54.0	53 0	.403	Cumulo stratus	10	Southwest	0.13
19 55	14 07	72.0	86.0	55.0	52.5	.379	Cumulo stratus	4	Southwest	0. 3
21 55	16 07	64.0	72.0	55 0	52.0	.366	Cumulo-stratus	7	Southwest	0.06
23 55	18 07			50.0	49.0	.3[illegible]0	Cumulo-stratus	5	Southwest	0.26
1 55	20 07			51.0	49.0	.339	Cumuli	7	S S. W.	0.26
3 55	22 07			49.0	45.0	.269	Stratus	5	S. S. W.	0.26

JANUARY 30, 1842.

Gottingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			50.0	45.0	.258	Cumulo-stratus	10	S. S. W.	0.52
7 55	2 07			49.0	46.0	.304	Cumulo stratus	10	Southwest	0.52
9 55	4 07			46 0	44.5	.292	Cumulus	10	W. S. W.	1.30
Noon	6 07			44.0	42.0	.261	Clear	0	Southwest	0.52
13 55	8 07	52.0	61.0	42.0	40.0	.241	Clear	0	Southwest	0 06
15 55	10 07	64.0	79 0	47.5	40.0	.179	Clear	0	South	2.52
17 55	Noon	68.0	82 0	50.5	42.0	.186	Clear	0	S. by W.	0.26
19 55	14 07	88.0	97.0	53.0	49.0	.216	Clear	0	W. S. W.	0.13
21 55	16 07	71.0	75.0	51.0	51.5	.365	Cirro-stratus	7	W. S. W.	0.13
23 55	18 07			50.0	43 0	.259	Stratus	3	Calm	0.00
1 55	20 07			44.5	40.0	.213	Stratus	3	Calm	0.00
3 55	22 07			40.0	37.0	.204	Cirro-stratus	2	Calm	0.00

JANUARY 31, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	*h. m.*	°	°	°	°	*Inch.*		*10th.*		*Lbs.*
5 55	0 07			40.0	36.0	.184	Cirro-stratus	5	Calm	0.00
7 55	2 07			39.0	36.0	.196	Stratus	4	Calm	0.00
9 55	4 07			41.0	39.0	.233	Stratus	5	Southwest	0.06
Noon	6 07			43.0	42.0	.272	Stratus	10	Southwest	0.06
13 55	8 07			44.0	44.0	.304	Stratus	10	Southwest	0.06
15 55	10 07			50.5	49.0	.344	Rain	10	Southwest	0.13
17 55	Noon			54.0	52.0	.378	Rain	10	S. S W.	0.52
19 55	14 07			55.0	54.0	.417	Cumulo-stratus	10	Southwest	0.26
21 55	16 07			55.0	54.0	.417	Cumulo-stratus	7	Southwest	0.52
23 55	18 07			54.0	52.0	.378	Cumulo-stratus	8	Southwest	0.26
1 55	20 07			50.0	43.0	.215	Cumulo-stratus	10	Southwest	10.42
3 55	22 07			44.5	38.0	.173	Cumulo stratus	7	Southwest	2.60

FEBRUARY 1, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			41.0	34.0	.136	Cirro stratus	1	W. by N.	0.26
7 55	2 07			37.5	33.0	.156	Cirro stratus	3	West	0.13
9 55	4 07			36.0	32.0	.158	Cirro-stratus	3	West	0.13
Noon	6 07			35.0	31.0	.151	Cirro-stratus	3	West	0 13
13 55	8 07	46.0	54.0	35.0	32.0	.169	Cirro-stratus	0	West	0.13
15 55	10 07	50.0	80.0	39.0	34.0	.157	Cirro stratus	2	West	0.13
17 55	Noon	66.0	84.0	42.0	36 0	.162	Cirrus	1	West	0.26
19 55	14 07	58.0	88.0	44.5	37.0	.143	Clear	0	West	0.13
21 55	16 07	52.0	78.0	46.0	40.0	.196	Cirri	3	West	0.13
23 55	18 07			41.0	34.0	.134	Clear	0	West	0.06
1 55	20 07			32.5	30.0	.161	Clear	0	West	0.06
3 55	22 07			30.0			Clear	0	West	0.06

FEBRUARY 2, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			27.0			Clear	0	Calm	0.00
7 55	2 07			27.0			Clear	0	Calm	0.00
9 55	4 07			25.0			Clear	0	Calm	0.00
Noon	6 07			27.0			Clear	0	Calm	0.00
13 55	8 07	40.0	42.0	30.0			Cirro-stratus	4	W. by S.	0.06
15 55	10 07	56.0	68.0	36.5			Cirri	4	S. W. by S.	0.26
17 55	Noon	64.0	79.0	45.0	40.0	.207	Cirri	8	Southwest	0.52
19 55	14 07	56.0	64.0	50.0	44.5	.235	Cirri	8	Southwest	0.52
21 55	16 07	64.0	76.0	51.0	45 0	.246	Cirri	3	Southwest	0.13
23 55	18 07			47.0	42.5	.237	Cirri	5	Southwest	0.06
1 55	20 07			46.5	42.0	.232	Cumuli	10	Southwest	0.06
3 55	22 07			46.0	42.0	.237	Cumuli	10	Southwest	0.26

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY 3, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5 55	0 07			45.0	42.0	.249	Cumuli	10	S. S. W.	0.06
7 55	2 07			46.0	42.0	.237	Cumuli	10	S. S. W.	0.06
9 55	4 07			47.0	43.5	.260	Rain	10	Southwest	0.06
Noon	6 07			47 5	41.0	.265	Rain	10	Southwest	0.26
13 55	8 07		54.0	50.0	49.0	.350	Rain	10	Southwest	0.26
15 55	10 07			58.5	58.5	.498	Cirro-stratus	10	Southwest	0.26
17 55	Noon			62.0	61.0	.530	Cirro stratus	10	Southwest	0 06
19 55	14 07			65.0	63.0	.556	Cirro-stratus	10	Southwest	0.06
21 55	16 07			66.5	64.0	.589	Stratus	10	Southwest	0.26
23 55	18 07			62 0	59.0	.472	Stratus	10	S S. W.	0.06
1 55	20 07			65.0	62 0	.526	Stratus	10	S. S. W.	0.06
3 55	22 07			66 0	64.0	.575	Cumulo-stratus	10	South	0.52

FEBRUARY 4, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			66.0	64.0	.575	Cumulo-stratus	10	South	0.52
7 55	2 07			66.0	61 0	.515	Cumulo-stratus	10	South	0.52
9 55	4 07			64.0	63.0	.567	Rain	10	Southwest	2.08
Noon	6 07			62.0	61.0	.530	Rain	10	Southwest	1.56
13 55	8 07			62.0	59.0	.473	Cumulo-stratus	10	Southwest	0.26
15 55	10 07			62.5	62.0	.554	Rain	10	Southwest	0.26
17 55	Noon	68 0	76.0	65.0	65 0	.617	Cumulo stratus	5	S. S. W.	0.26
19 55	14 07	75 0	97.0	69.5	67.0	.632	Cumulo-stratus	5	Southwest	0.13
21 55	16 07	78 0	90.0	70.0	66.0	.594	Cumulo-stratus	7	Southwest	0.26
23 55	18 07	67.0	78.0	65.0	62.0	.526	Cumulo-stratus	5	S. S. W.	0.26
1 55	20 07			64.0	60.0	.479	Cumulo stratus	3	Southwest	0.13
3 55	22 07			66.0	65.0	.606	Cirro stratus	5	Southwest	0.52

FEBRUARY 5, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			64.0	55.0	.343	Rain	10	Southwest	0.52
7 55	2 07			56.0	50.0	.307	Rain	9	W. S. W.	0 26
9 55	4 07			50.0	43.0	.215	Cumulo-stratus	5	Southwest	2.60
Noon	6 07			47.5	42.0	.221	Cumulo-stratus	5	W. S. W.	5.21
13 55	8 07	46.0	48.0	46.0	40.0	.197	Cumulo-stratus	5	West	5.21
15 55	10 07		64 0	48.0	40.0	.174	Cumuli	6	W. N. W.	5 47
17 55	Noon	68.0	83.0	49.5	42.0	.199	Cumuli	7	Northwest	5.21
19 55	14 07		88.0	48.5	42.0	.209	Cumuli	7	Northwest	0.52
21 55	16 07	56.0	72.0	47.0	42.0	.226	Cumuli	2	Northwest	0.26
23 55	18 07			44 5	40.5	.223	Clear	0	Northwest	0.13
1 55	20 07			41.0	36.0	.173	Clear	0	Northwest	0.13
3 55	22 07			39.0	34.0	.157	Clear	0	Northwest	0.[illegible]

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY 6, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	h. m.	°	°	°	°	Inch.		10th.	
5 55	0 07			35.0	30.5	.143	Clear	0	Northwest
7 55	2 07			32.5	32.0	.194	Clear	0	Calm
9 55	4 07			32.0			Clear	0	Calm
Noon	6 07			30.0			Cirrus	2	Calm
13 55	8 07	40.0	42.0	31.0			Cirro-stratus	2	Calm
15 55	10 07	66.0	81.0	40.5	33.0	.122	Cirro stratus	5	S W by W
17 55	Noon	72.0	86.0	47.5	40.0	.179	Cirro-stratus	3	Southwest
19 55	14 07	76.0	90.0	56.0	50.0	.306	Cirro stratus	4	Southwest
21 55	16 07	68.0	80.0	57.0	49.0	.271	Cirro stratus	3	Southwest
23 55	18 07			50.5	48.0	.321	Cirro-stratus	2	Southwest
1 55	20 07			47.5	43.0	.243	Clear	0	S. S. W.
3 55	22 07			45.0	42.0	.249	Clear	0	Southwest

FEBRUARY 7, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			44.0	40.0	.219	Clear	0	Southwest
7 55	2 07			43.0	39.5	.221	Cirri	5	Southwest
9 55	4 07			45.5	40.5	.2 3	Cumuli	10	S S. W.
Noon	6 07			46.5	41.0	.212	Cumuli	10	S. W. by S.
13 55	8 07			47.5	44.5	.275	Cumuli	10	S. W. by S.
15 55	10 07			48.0	48.0	.349	Rain	10	Southwest
17 55	Noon			49.0	49.0	.361	Rain	10	Southwest
19 55	14 07			50.0	48.0	.327	Rain	10	Southwest
21 55	16 07			50.0	48.0	.327	Cirro stratus	10	Calm
23 55	18 07			48.0	47.0	.326	Cirro stratus	10	Calm
1 55	20 07			47.0	44.0	.270	Cirro-stratus	10	Southwest
3 55	22 07			46.0	44.0	.282	Stratus	10	Southwest

FEBRUARY 8, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			43.0	39.5	.221	Cumule-stratus	10	Northwest
7 55	2 07			39.0	37.0	.216	Cumulo-stratus	10	Northwest
9 55	4 07			37.0	34.0	.180	Cumulo stratus	5	Northwest
Noon	6 07			33.0	30.0	.156	Cumulo-stratus	3	Northwest
13 55	8 07			33.0	30.0	.156	Cumulo-stratus	2	S. S. W.
15 55	10 07	50.0	58.0	*48.0	34.0		Cumuli	5	West
17 55	Noon			32.0	32.0	.199	Snow	10	W. by N.
19 55	14 07			31.5	31.0	.187	Cumuli	7	W. by N.
21 55	16 07			27.0	22.0	.088	Cumuli	3	Northwest
23 55	18 07			25.0	20.0	.078	Cirro stratus	3	Northwest
1 55	20 07			23.0	19.0	.084	Cumulo-stratus	5	Northwest
3 55	22 07			19.5	17.0	.091	Cumuli	7	Northwest

* Doubtless an error in the record.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY 9, 1842.

solar time.	Thermometers.								
Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
h. m.	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
0 07			16.0	16.0	.112	Clear	0	Northwest	2.60
2 07			17.0	16.0	.102	Clear	0	Northwest	0.52
4 07			16.0	16.0	.112	Clear	0	W. N. W.	0.52
6 07			17.0	16.0	.102	Cumuli	0	W. N. W.	0.26
8 07	18.0	32.0	18.0	18.0	.120	Cumuli	0	W. by N.	0.26
10 07	48.0	60.0	22.5			Cumuli	1	W. S. W.	0.26
Noon	50.0	66.0	26.5			Clear	0	W. S W.	0.52
14 07	50.0	66.0	30.0			Clear	0	W. S. W.	0.52
16 07	46.0	48.0	33.0			Clear	0	W. S. W.	0.26
18 07			31.5			Clear	0	W. S. W	0.26
20 07			31 0			Clear	0	W. S. W.	0 13
22 07			31.0			Clear	0	W. S. W.	0.13

FEBRUARY 10, 1842.

0 07			31.0			Clear	0	W. S. W.	0.26
2 07			31.0			Clear	0	W. S. W.	0.26
4 07			30.0			Clear	0	W S. W.	0 13
6 07			29.0			Cumulo stratus	7	W. S. W.	0.06
8 07			30.0			Cirro-stratus	9	W. S. W.	0.06
10 07	64.0	86.0	34.0	32.5	.186	Cirri	4	W. by S.	0 13
Noon	66.0	76 0	42.0	36 0	.162	Cirri	6	W. by S.	0.26
14 07	62.0	71.0	49.0	44.0	.247	Cirri	6	W. by S.	0.26
16 07	51.0	60.0	49.0	46.0	.282	Cirri	6	W. by S.	0.26
18 07			41.5	40 0	.224	Cirri	5	W. by S.	0.39
20 07			38.0	34.0	.168	Cirri	5	W by S.	0.06
22 07			36.0	32.5	.163	Cirri	3	Calm	0.00

FEBRUARY 11, 1842.

0 07			33.5			Clear	0	Southwest	0 06
2 07			34 0			Cumuli	7	Southwest	0.06
4 07			33.5			Cumuli	10	North	0.26
6 07			35 0	32 5	.175	Cumuli	10	North	0 26
8 07			36.0	34.0	.191	Cumuli	10	N E by N.	0.13
10 07			43 5	42.0	.266	Cumulo-stratus	5	Calm	0.00
Noon	72.0	87.0	50.0	47.0	.303	Cumulo stratus	5	Calm	0.00
14 07	62.0	68.0	57.0	52.0	.34[illegible]	Stratus	10	Calm	0.00
16 07			54 0	47 0	.257	Stratus	10	Southwest	0.13
18 07			49.0	45.0	.268	Stratus	10	Calm	0.00
20 07			49.0	46.0	.282	Stratus	10	S. S. W.	0.13
22 07			48.0	47.0	.326	Stratus	10	S. S. W.	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
FEBRUARY, 12, 1842.									
h. m.	h. m.	°	°	°	°	Inch.		10th.	
5 55	0 07			48.0	47.0	.326	Stratus	10	Calm
7 55	2 07			48.0	47.0	.326	Stratus	10	Calm
9 55	4 07			48 0	48.0	.349	Rain	10	South
Noon	6 07			49.0	48 0	.338	Rain	10	South
13 55	8 07			49.0	48 0	.338	Cirro-stratus	10	South
15 55	10 07			51.0	50.0	.362	Cumulo-stratus	10	Southwest
17 55	Noon		60.0	57.0	55.0	.420	Cumulo-stratus	10	Southwest
19 55	14 07		60.0	59.5	56 0	.419	Cirro-stratus	10	Southwest
21 55	16 07			58.0	54 0	.383	Cirro-stratus	10	Southwest
23 55	18 07			55.0	50.0	.317	Cirro-stratus	10	Southwest
1 55	20 07			51.0	48.0	.316	Stratus	10	Southwest
3 55	22 07			50.0	43.0	.326	Stratus	10	Southwest
FEBRUARY 13, 1842.									
5 55	0 07			50.0	47 0	.303	Rain	10	Northeast
7 55	2 07			49 0	46.0	.292	Rain	10	Northeast
9 55	4 07			45.0	43.0	.271	Rain	10	Northeast
Noon	6 07			44.0	42 0	.261	Rain	10	N. N. E.
13 55	8 07			42.0	41.0	.263	Rain	10	Northeast
15 55	10 07			42.5	42.0	.277	Rain	10	N. E. by N.
17 55	Noon			43.5	42.0	.266	Rain	10	N. N. E.
19 55	14 07			47.5	46.0	.309	Rain	10	W. N. W.
21 55	16 07			50.0	48.0	.317	Cumulo stratus	10	N. W. by W.
23 55	18 07			48.5	48 0	.313	Stratus	10	West
1 55	20 07			47.5	46.0	.309	Stratus	10	W. S. W.
3 55	22 07			47.5	46.0	.309	Stratus	10	W. S. W.
FEBRUARY 14, 1842.									
5 55	0 07			47.0	46.0	.315	Stratus	10	W. S. W.
7 55	2 07			47 0	46.0	.315	Stratus	10	W. S. W.
9 55	4 07			45 5	44 0	.287	Cumulo-stratus	3	W. S. W.
Noon	6 07			44 5	42.0	.255	Cirro stratus	6	W. S. W.
13 55	8 07	70.0	76.0	45.0	42.0	.249	Cirro-stratus	7	W. S. W.
15 55	10 07	60 0	64 0	49.0	44.0	.218	Cumuli	3	W. by N.
17 55	Noon	68.0	82.0	50.5	48.0	.321	Cumuli	8	West
19 55	14 07	67.0	78.0	47.5	42.0	.221	Cumuli	5	W. N. W.
21 55	16 07			44 0	37.0	.160	Cumuli	4	West
23 55	18 07			35.5	32.5	.169	Clear	0	Northwest
1 55	20 07			29.0			Clear	0	Northwest
3 55	22 07			25.0	22.0	.109	Clear	0	W. N. W.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY 15, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington	Sun.	Rad.	Dry.	Wet.					
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
5 55	0 07			24.0			Clear	0	W. N. W.	2.08
7 55	2 07			23.0			Clear	0	W. N. W.	2 08
9 55	4 07			21.0			Clear	0	W. by N.	1.72
Noon	6 07			20.0			Clear	0	W. by N.	0.52
13 55	8 07	39.0	44 0	23.0			Clear	0	W. by S.	0.26
15 55	10 07	53.0	56.0	27.5			Clear	0	W. S. W.	0.13
17 55	Noon	50.0	58.0	32.5			Cirro-stratus	4	W. S. W.	0.13
19 55	14 07	53.0	60.0	37.5	34.0	.174	Cirro stratus	6	W. S. W.	0.13
21 55	16 07	49.0	59.0	37.0	32.0	.148	Cirro stratus	9	W. S. W.	0.13
23 55	18 07			33.0	32.0	.189	Stratus	10	Southwest	0.13
1 55	20 07			31.5	29.0	.154	Stratus	10	Southwest	0.13
3 55	22 07			31.0	28 5	.151	Stratus	7	Southwest	0.13

FEBRUARY 16, 1842.

Göttingen.	Washington	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			32.0			Stratus	10	West	0.13
7 55	2 07			32.0	30.0	.166	Stratus	10	South	0.13
9 55	4 07			31.5	29.0	.154	Snow	10	South	0.06
Noon	6 07			31.0	29.5	.167	Snow	10	Southeast	0.06
13 55	8 07			31.0	29.5	.167	Hail	10	N. N. E.	0.06
15 55	10 07			34.0	32.0	.179	Rain	10	West	0.26
17 55	Noon			34.0	32 0	.179	Snow	10	Northwest	0.26
19 55	14 07			34.0	34.0	.214	Snow	10	Northwest	0.26
21 55	16 07			34.0	32.0	.179	Stratus	10	W. S. W.	0.52
23 55	18 07			34.0	32.0	.179	Stratus	10	W. S. W.	2.60
1 55	20 07			32.0	31.0	.182	Stratus	10	W. S. W.	0.56
3 55	22 07			28.0	28.0	.173	Cumuli	7	W. S. W.	5.21

FEBRUARY 17, 1842.

Göttingen.	Washington	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			21.0			Cumuli	3	Southwest	10.42
7 55	2 07			18.5			Clear	0	Southwest	10.42
9 55	4 07			16.0			Clear	0	Southwest	10.42
Noon	6 07			15.0			Cirro-stratus	3	Southwest	10.42
13 55	8 07	32.0	46.0	14.0			Cirro stratus	2	Southwest	10.42
15 55	10 07	46.0	54 0	16.5	16.0	.107	Clear	0	W. N. W.	0.00
17 55	Noon	52 0	61.0	19.5	16.5	.084	Clear	0	W. N. W.	0.52
19 55	14 07	54.0	72.0	24.0	22.0	.119	Clear	0	W. N. W.	0.52
21 55	16 07	46.0	68.0	27.5	24.5	.122	Clear	0	W. N. W.	0.26
23 55	18 07			24.5	22.0	.114	Clear	0	West	0.13
1 55	20 07			21.5	20.0	.114	Clear	0	West	0.06
3 55	22 07			17.5	16.5	.104	Clear	0	West	0.06

FEBRUARY 18, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	h. m.	°	°		°	Inch.		10th.	
5 55	0 07			17.0	16.5	.109	Stratus	10	West
7 55	2 07			17.0	16.5	.109	Stratus	10	West
9 55	4 07			18.5	18.0	.115	Stratus	2	Calm
Noon	6 07			23.5	23.0	.139	Stratus	8	Calm
13 55	8 07			28.5	28.0	.168	Cirro-stratus	10	W. S. W.
15 55	10 07	59.0	78.0	38.0	32.0	.138	Cirro-stratus	6	Southwest
17 55	Noon	66.0	85.0	40.5	37.0	.198	Cirro stratus	6	Southwest
19 55	14 07		48.0	43.0	38.0	.189	Cirro-stratus	10	Southwest
21 55	16 07		47.0	44.0	40.0	.218	Cirro-stratus	9	Southwest
23 55	18 07			43.0	40.0	.230	Cumuli	8	Southwest
1 55	20 07			43.0	38.0	.190	Cumuli	10	S. S. W
3 55	22 07			47.0	42.0	.227	Rain	10	S. by W

FEBRUARY 19, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			48.0	44.0	.259	Rain	10	S. S. W
7 55	2 07			50.0	44.0	.237	Rain	10	S. S. W
9 55	4 07			45.5	41.5	.234	Rain	10	Southwest
Noon	6 07			44.0	40.0	.219	Cumuli	10	Southwest
13 55	8 07			43.0	42.0	.272	Cumuli	10	Southwest
15 55	10 07			47.5	46.0	.309	Cumulo stratus	9	W. S. W
17 55	Noon	62.0	78.0	44.5	39.0	.193	Cumulo stratus	3	W. N. W
19 55	14 07	58.0	77.0	41.0	35.0	.155	Cumulo-stratus	2	W. N. W
21 55	16 07	56.0	73.0	40.0	34.0	.146	Cumulo-stratus	2	W. N. W
23 55	18 07			36.0	33.0	.163	Clear	0	W. N. W.
1 55	20 07			33.0	32.0	.189	Clear	0	North
3 55	22 07			31.0			Clear	0	West

FEBRUARY 20, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 55			30.5			Clear	0	W. N. W
7 55	2 55			27.0			Clear	0	Northwest
9 55	4 55			24.0			Clear	0	Northwest
Noon	6 55			21.5			Clear	0	Northwest
13 55	8 55			22.0			Clear	0	N. N. W.
15 55	10 55	56.0	64.0	25.0			Clear	0	Northeast
17 55	Noon	50.0	70,0	27.0			Cirri	5	Northeast
19 55	14 55	40.0	48.0	32.0			Cirri	5	West
21 55	16 55	36.0	42.0	31.0			Stratus	6	Southwest
23 55	18 55			28.0			Stratus	5	Southwest
1 55	20 55			25.0			Stratus	5	Southwest
3 55	22 55			21.5			Stratus	2	Southwest

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY 21, 1842.

an solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
ottingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			21.0			Clear	0	Southwest	0.26
55	2 07			20.0			Clear	0	Southwest	0.26
55	4 07			20.0			Clear	0	Southwest	0.13
oon	6 07			20.0			Clear	0	Calm	0.00
55	8 07	38.0	40 0	21.0			Clear	0	Calm	0.00
55	10 07	46.0	78.0	30.5			Clear	0	W. by N.	0.06
55	Noon	67.0	85 5	34.0	31.0	.162	Clear	0	West	0.06
55	14 07	68 0	88.0	37.0	32.0	.148	Cirri	2	West	0.06
55	16 07	62.0	72.0	38.0	32.0	.138	Cirri	2	West	0.06
55	18 07			35.5	32.0	.164	Clear	0	West	0.06
55	20 07			31.5	28.0	.138	Clear	0	West	0.06
55	22 07			27.5	26.0	.146	Clear	0	Calm	0.00

FEBRUARY 22, 1842.

55	0 07			25.5	24.0	.134	Clear	0	Calm	0.00
55	2 07			25.0	24.0	.139	Clear	0	Calm	0.00
55	4 07			23.0	22.0	.129	Clear	0	Calm	0.00
oon	6 07			23.0	22.0	.129	Cumuli	2	Calm	0.00
55	8 07			25.0			Cumulo-stratus	10	Calm	0.00
55	10 07	62.0	82.0	30.5	30.0	.181	Stratus	4	W. S. W.	0.06
55	Noon	70.0	89.0	38.0	32.0	.138	Stratus	4	W. S. W.	0.06
55	14 07		46.0	41.0	36.0	.173	Cumuli	10	W. S. W.	0.26
55	16 07		44 0	40.5	35.0	.159	Cumuli	8	West	0.26
55	18 07			36.0	32.0	.158	Cumuli	7	West	0.52
55	20 07			32.5	32.0	.191	Cumuli	7	West	0.26
55	22 07			30.0	27.0	.137	Clear	0	W. N. W.	0.13

FEBRUARY 23, 1842.

55	0 07			28.0			Clear	0	W. N. W.	0.26
55	2 07			26.0			Clear	0	N. W. by W.	0.26
55	4 07			22.0			Clear	0	Calm	0.00
oon	6 07			24.0			Clear	0	Calm	0.00
55	8 07	40.0	46.0	26.0			Clear	0	Calm	0.00
55	10 07	57.0	76.0	31.0	29.0	.159	Cirro-stratus	2	West	0.13
55	Noon	61.0	80.0	35.0	33.0	.184	Cumulo stratus	2	West	0.13
55	14 07	50 0	71.0	40.0	33.0	.127	Cirro-cumulus	2	W. S. W.	0.13
55	16 07	52.0	58.0	42.0	37.0	.181	Cirro-cumulus	6	W. S. W.	0.13
55	18 07			36.0	33 0	.150	Cumuli	4	W. S. W.	0.06
55	20 07			34.0	31.0	.162	Clear	2	Calm	0.00
55	22 07			33.0	31.0	.172	Clear	0	Calm	0.00

FEBRUARY 24, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*	
5 55	0 07			31.0	28.0	.143	Clear	0	Calm
7 55	2 07			31.0	28.0	.143	Stratus	10	Calm
9 55	4 07			31 5	29.5	.172	Stratus	10	Calm
Noon	6 07			32.0	30.5	.174	Stratus	10	Calm
13 55	8 07			32.0	31.0	.182	Stratus	10	Calm
15 55	10 07	47.0	53.0	39.5			Stratus	10	W. S. W.
17 55	Noon	52.0	57.0	46.5	44.0	.276	Stratus	10	Calm
19 55	14 07	57.5	65.0	50.5	47.5	.309	Stratus	9	West
21 55	16 07	70.0	79.0	51.0	45.0	.246	Stratus	6	Calm
23 55	18 07			48.0	43.0	.236	Stratus	7	N. E. by E.
3 55	20 07			41.5	37.5	.196	Stratus	5	N. E. by E.
1 55	22 07			39.0	35.0	.176	Stratus	5	N. E. by N.

FEBRUARY 25, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			37.5	34 5	.184	Stratus	4	N. N. E.
7 55	2 07			37.5	34.0	.174	Stratus	4	Calm
9 55	4 07			33.5	32.0	.184	Stratus	4	Calm
Noon	6 07			35.0	32 0	.169	Stratus	4	N'd & E'd
13 55	8 07	45.0	50.0	37.0	31.5	.190	Cumulo-stratus	3	Northeast
15 55	10 07	52.0	60.0	42.0	39.0	.221	Cumulo-stratus	5	Northeast
17 55	Noon	56.0	62.0	47.0	42.0	.226	Cumulo-stratus	10	Northeast
19 55	14 07	54.0	58.0	50 0	44.0	.236	Cumulo-stratus	10	Northeast
21 55	16 07			49.0	42.0	.203	Cumulo-stratus	10	Northeast
23 55	18 07			46.0	43.0	.259	Cumulo-stratus	10	Northeast
1 55	20 07			45.0	42.0	.249	Cumulo-stratus	10	Northeast
3 55	22 07			45.0	41.0	.228	Cumulo-stratus	7	Northeast

FEBRUARY 26, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			43.0	41.0	.251	Cirro-stratus	10	Northeast
7 55	2 07			42.0	41.0	.263	Cirro-stratus	10	Northeast
9 55	4 07			41.0	40.0	.253	Cirro-stratus	10	Northeast
Noon	6 07			42.0	41.0	.263	Cirro stratus	10	E. N. E.
13 55	8 07			43.0	42.0	.272	Cirro-stratus	10	E. N. E.
15 55	10 07		40 0	41.5	40.5	.258	Rain	10	N. by E.
17 55	Noon		74.0	45.0	42.0	.249	Cumuli	8	Northeast
19 55	14 07	76.0	94.0	50.5	48.0	.321	Cumuli	3	S. S. E.
21 55	16 07	68.0	66.0	53.0	52.0	.389	Cumuli	8	Calm
23 55	18 07		46.0	47.0	46.0	.315	Cumuli	2	E. N. E.
1 55	20 07			45.0	42.0	.249	Cumuli	2	E. N. E.
3 55	22 07			43.0	42.0	.272	Stratus	10	E. N. E.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

FEBRUARY 27, 1842.

1 solar time.		Thermometers.								
	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
n.	*h. m.*	°	°	°	°	*Inch.*		*10th.*		*Lbs.*
55	0 07			42.5	42.0	.277	Mist	10	E. N. E.	0.06
55	2 07			42.0	42.0	.283	Mist	10	E. N. E.	0.06
55	4 07			42.0	42.0	.283	Cirro stratus	10	E. N. E.	0.06
m	6 07			41.5	40.5	.258	Cumulo-stratus	10	West	0.06
55	8 07			42.0	40.5	252	Cumulo stratus	10	W. by N.	0.06
55	10 07	68.0	76.0	47.0	43.0	.247	Cumuli	6	Northwest	0.26
55	Noon	56.0	60.0	49.5	45.0	.262	Cumuli	7	W. by N.	0.26
55	14 07	73.0	92.0	50.5	46.0	.276	Cumuli	7	Northwest	0.26
55	16 07	50.5	51.0	50.5	45.0	.252	Cumuli	8	Northwest	0.26
55	18 07			47.0	42.0	.226	Clear	0	Northwest	0.26
55	20 07			43.0	40.0	.230	Clear	0	Calm	0.00
55	22 07			40.5	37.0	.198	Clear	0	Calm	0.00

FEBRUARY 28, 1842.

55	0 07			39.5	36.0	.190	Clear	0	Calm	0.00
55	2 07			34.0	32.5	.186	Clear	0	Calm	0.00
55	4 07			32.0	32.0	.199	Clear	0	Calm	0.00
m	6 07			31.5			Clear	0	Calm	0.00
55	8 07	52.0	54.0	32 5	32.0	.194	Clear	0	Northwest	0.13
55	10 07	77.0	90.0	42.0	41.0	.263	Cirro-stratus	3	N'd & W'd	0.06
55	Noon	76.0	91.0	46.5	44.0	.276	Cirro-stratus	3	S. S. W.	0.06
55	14 07	58.0	64.0	51.5	49.0	.333	Cirro-stratus	7	S'd & W'd	0.06
55	16 07		53.5	52 0	48.0	.303	Stratus	10	Calm	0.00
55	18 07			49.0	45.0	.268	Stratus	10	Calm	0.00
55	20 07			45.5	43.0	.265	Rain	10	Calm	0.00
55	22 07			45.0	42.0	.249	Stratus	10	Calm	0.00

MARCH 1, 1842.

55	0 07			45.0	42.0	.219	Cirro-stratus	10	Calm	0.00
55	2 07			45.0	42.0	.249	Cirro-stratus	10	Calm	0.00
55	4 07			44.0	42.5	.271	Cirro-stratus	10	Calm	0.00
m	6 07			44.5	43.0	.276	Stratus	10	Calm	0.00
55	8 07			45.0	43.0	.270	Stratus	10	Northeast	0.06
55	10 07	58.0	68 0	50.5	47.0	.297	Cirro-stratus	9	Calm	0.00
55	Noon	76.0	92.0	53.0	49.0	.315	Cirro-stratus	9		
55	14 07	84.0	96.0	57.0	52 0	.344	Cirro-stratus	7	Southeast	0.13
55	16 07	61.0	68.0	60.0	54.0	.361	Cirri	7	Southwest	0.13
55	18 07			55.0	51.0	.341	Cirri	4	Southwest	0.13
55	20 07			52 5	50.0	.345	Stratus	10	E. N. E.	0.06
55	22 07			52 5	50.5	.358	Stratus	10	Calm	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 2, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*	
5 55	0 07			51.5	50.0	.356	Stratus	10	S'd & W'd
7 55	2 07			52.0	51.0	.375	Stratus	10	East
9 55	4 07			53.0	52.5	.401	Stratus	10	S'd & W'd
Noon	6 07			54.0	53.5	.415	Rain	10	S. W. by S.
13 55	8 07			56.0	56.0	.458	Rain	10	S. W. by S.
15 55	10 07			62.0	62.0	.559	Stratus	10	S. W. by W.
17 55	Noon	69.0	75.0	65.0	64.0	.586	Stratus	10	S. W. by W.
19 55	14 07		73.0	69.5	65.0	.567	Stratus	10	South
21 55	16 07			69.0	63.0	.512	Stratus	10	Southwest
23 55	18 07			64.5	59.0	.445	Cumulo stratus	7	W. S. W.
1 55	20 07			62.0	58.0	.445	Cumulo-stratus	3	Southwest
3 55	22 07			59.0	56.0	.425	Clear	0	S. W. by W.

MARCH 3, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			56.0	52.0	.355	Clear	0	Southwest
7 55	2 07			55.0	52.0	.366	Stratus	7	Northwest
9 55	4 07			56.0	50.0	.306	Stratus	3	Southwest
Noon	6 07			52.0	50.0	.351	Clear	0	Southwest
13 55	8 07	70.0	74.0	54.0	52.0	.378	Clear	0	Southwest
15 55	10 07	89.0	98.0	61.5	58.0	.450	Clear	0	S. W. by W
17 55	Noon	95.0	107.0	69.0	61.0	.451	Cumuli	1	S. W. by W
19 55	14 07	97.5	108.5	73.0	64.0	.496	Cumuli	3	Southwest
21 55	16 07	80.0	85.0	73.5	64.0	.491	Cirro-stratus	6	Southwest
23 55	18 07			68.5	60.5	.442	Cumuli	1	Southwest
1 55	20 07			62.0	56.0	.391	Stratus	2	Southwest
3 55	22 07			61.0	56.0	.402	Stratus	6	S. S. W.

MARCH 4, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			61.0	57.0	.428	Stratus	9	S. W. by S.
7 55	2 07			59.5	56.0	.419	Stratus	2	S. W. by S.
9 55	4 07			58.5	55.0	.403	Cirro-stratus	5	S. W. by W.
Noon	6 07			57.5	55.0	.414	Stratus	6	S. W. by W.
13 55	8 07			62.5	60.0	.495	Stratus	9	Southwest
15 55	10 07	76.0	86.0	64.0	61.0	.507	Cumuli	10	Southwest
17 55	Noon	80.0	90.0	74.0	68.0	.615	Cumuli	7	Southwest
19 55	14 07	92.0	104.0	76.0	69.0	.627	Cumuli	7	S. S. W.
21 55	16 07	84.0	94.0	76.0	68.0	.593	Cumuli	5	S. S. W.
23 55	18 07			71.0	64.0	.520	Stratus	7	Southwest
1 55	20 07								
3 55	22 07			68.0	64.0	.558	Cumulo-stratus	10	S. S. W.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 5, 1842.

n solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
	Washington.	Sun.	Rad.	Dry.	Wet.					
m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			64.0	61.0	.508	Cumuli	5	Southwest	0.52
55	2 07			61.0	58.0	.456	Cumuli	1	S. S. W.	0.26
55	4 07			60 0	57.0	.440	Cirro-stratus	1	S. W. by S.	0.26
on	6 07			58.5	55.0	.403	Cirro-cumulus	1	Southwest	0.06
55	8 07	69.0	78.0	60.5	59 0	.489	Cirro-cumulus	6	Southwest	0 06
55	10 07	90.0	106.0	68.0	62.0	.492	Cumulo-stratus	2	W. S. W.	0.26
55	Noon	90.0	102.0	72.0	63.0	.477	Cumulo-stratus	3	W. S. W.	0.52
55	14 07	79.0	84.0	75.0	63.0	.443	Cumulo-stratus	3	W. S. W.	0.52
55	16 07	94.0	102.0	75.5	66.0	.533	Cumulo-stratus	3	Calm	0.00
55	18 07			72.5	64.0	.502	Cumulo-stratus	5	Calm	0.00
55	20 07			63.0	56.0	.480	Cumuli	7	Northeast	0.52
55	22 07			63.0	56.0	.480	Cumuli	5	Northeast	0.52

MARCH 6, 1842.

55	0 07			51.0	49.0	.339	Cumuli	5	Northeast	0.52
55	2 07			50.0	49 0	.350	Stratus	9	Northeast	0.26
55	4 07			46.0	44.0	.281	Stratus	8	Northeast	0.26
n	6 07			46.0	45.0	.303	Cirro-stratus	10	Northeast	0.13
55	8 07			46.0	45.0	.303	Cirro stratus	10	Northeast	0.13
55	10 07		54.0	48.5	47.0	.320	Stratus	10	N. E. by N.	0 06
55	Noon		57.0	50 5	49.0	.344	Stratus	10	N. E. by N.	0.06
55	14 07		55.0	50.5	49.0	.344	Stratus	10	N. by E.	0.06
55	16 07		51.0	50.5	48.5	.332	Stratus	10	N. E. by N.	0.06
55	18 07			48.5	47.5	.332	Stratus	10	Northeast	0.06
55	20 07			48.0	47.0	.326	Stratus	10	Calm	0.00
55	22 07			48 0	47.0	.326	Stratus	10	Calm	0.00

MARCH 7, 1842.

5	0 07			48.0	47.5	.337	Stratus	10	Calm	0 00
5	2 07			48.0	47.0	.326	Cirro-stratus	10	Calm	0.00
5	4 07			48.0	47.0	.326	Cirro-stratus	10	Calm	0.00
n	6 07			48.0	47.0	.326	Cirro-stratus	10	Calm	0.00
5	8 07			48.0	47.0	.326	Cirro stratus	10	Calm	0.00
5	10 07			48.0	48.0	.349	Rain	10	Calm	0.00
5	Noon			51.0	50.0	.362	Rain	10	Northeast	0.13
5	14 07			51.0	50.0	.362	Rain	10	Northeast	0.13
5	16 07			48.0	46.0	.303	Rain	10	Northwest	0.26
5	18 07			45.0	42.0	.249	Cumulo-stratus	10	North	0.13
5	20 07			43.0	41.0	.251	Cumulo-stratus	8	North	0 06
5	22 07			42.0	38.0	.200	Cumuli	2	W. N. W.	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 8, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	h. m.	°	°	°	°	Inch.		10th.	
5 55	0 07			39.0	35.5	.175	Stratus	10	W. N. W
7 55	2 07			37.5	34.5	.180	Stratus	8	W. N. W
9 55	4 07			35.5	32.0	.164	Stratus	3	W. N. W.
Noon	6 07			33.5	31.0	.167	Cirro cumulus	2	W. N. W.
13 55	8 07	62.0	75.0	35.5	33.0	.178	Clear	0	W. N. W
15 55	10 07	70.0	86.0	42.0	37 0	.180	Cumuli	2	N. W. by W.
17 55	Noon	70 0	84.0	44.5	39.0	.191	Clear	0	N. W. by W
19 55	14 07	76 0	92.0	47.5	42.0	.220	Clear	0	N. W. by W
21 55	16 07	73.0	88.0	49.5	43.0	.219	Cumulo-stratus	2	N. W. by W.
23 55	18 07			46.5	41.0	.211	Stratus	10	N. W. by W.
1 55	20 07			42.0	38.0	.200	Stratus	7	Northwest
3 55	22 07			41.0	37.0	.192	Cumuli	10	North

MARCH 9, 1812.

5 55	0 07			42.0	38.0	.200	Cumuli	10	Northeast
7 55	2 07			41.0	38.0	.212	Cumulo-stratus	7	S. S. E.
9 55	4 07			41.5	38 0	.206	Stratus	10	Southeast
Noon	6 07			42.0	40.0	.241	Stratus	8	S. S. E
13 55	8 07			45.0	42.0	.249	Stratus	10	S. by W.
15 55	10 07			43.0	41.0	.251	Rain	10	S. W. by S
17 55	Noon			45.0	43.0	.270	Stratus	10	S. W. by S
19 55	14 07	69 0	78 0	52.5	51.0	.369	Cirro-stratus	8	S. W. by S.
21 55	16 07	67.0	73.5	59.5	55.5	.405	Cirro-stratus	4	S. W. by S.
23 55	18 07			55.0	52.0	.366	Cumuli	7	S. W. by S
1 55	20 07			53.5	51.0	.358	Cumulo-stratus	10	S. S. W.
3 55	22 07			54.5	51.5	.359	Cumulo-stratus	10	S. by W.

MARCH 10, 1842.

5 55	0 07			53.0	51.0	.364	Stratus	6	Calm
7 55	2 07			53.0	51.0	.364	Stratus	10	Calm
9 55	4 07			53.5	50.5	.346	Rain	10	S. S. E
Noon	6 07			53.0	51.0	.364	Cirro-stratus	10	S. S. W.
13 55	8 07			53.0	51.0	.364	Cirro-stratus	10	S. S. W.
15 55	10 07			59.5	58.0	.472	Cirro stratus	10	Southwest
17 55	Noon			61.5	59.0	.444	Cirro-stratus	7	Southwest
19 55	14 07			63.0	60.0	.489	Cumuli	10	Southwest
21 55	16 07			62.0	58.0	.444	Cumuli	10	Southwest
23 55	18 07			60 5	57.0	.431	Cumuli	7	Southwest
1 55	20 07			58.0	55.5	.416	Stratus	9	Southwest
3 55	22 07			57.0	56.0	.447	Rain	10	S. S. W.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 11, 1842.

solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
	Washington.	Sun.	Rad.	Dry.	Wet.					
n.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5	0 07			56.5	55.0	.425	Stratus	10	S.W. by S.	1.04
5	2 07			56.0	54.5	.418	Rain	10	S. by W.	0.13
5	4 07			55.5	54.5	.424	Rain	10	S.W. by S.	0.52
n	6 07			55.0	54.0	.417	Rain	10	S. W. ½.S.	0.06
5	8 07			56.0	55.0	.431	Cirro-stratus	10	Calm	0.00
5	10 07	66.0	71.0	61.5	58.0	.450	Cumulo-stratus	9	W. N. W.	0.13
5	Noon	77.0	86.0	63 0	53.0	.302	Cumulo-stratus	9	Northwest	1.56
5	14 07	73.0	86.0	61.0	53.0	.324	Cumulo-stratus	9	Northwest	2.60
5	16 07	66.0	59.0	54.5	47.0	.253	Cumulo stratus	5	N. N. W.	3.64
5	18 07			47.0	39.0	.164	Cumulo stratus	5	W. N. W.	3.64
5	20 07			40.0	36.0	.184	Cumulo-stratus	2	Northwest	3.64
5	22 07			33.0	30.0	.156	Cumulo-stratus	2	W. N. W.	1.56

MARCH 12, 1842.

5	0 07			31.0	30.0	.176	Cumulo-stratus	5	Northwest	1.50
5	2 07			31.0	30.0	.176	Cumulo stratus	3	N. N. W.	3.64
5	4 07			28.5			Stratus	5	Northwest	0.52
n	6 07			27.5			Stratus	8	N. N. W.	0.52
5	8 07	46.0	48.0	27.0			Clear	0	Northwest	0.26
5	10 07	66.0	79.5	30.0	28 0	.153	Cirri	1	N. E. by N.	0.06
5	Noon	64.0	79.0	35.0	30.0	.134	Clear	0	Southwest	0.13
5	14 07	71.5	88.0	35.5	32.0	.163	Clear	0	S. W. by S.	0.06
5	16 07	63.0	82.0	39.0	32.5	.128	Clear	0	Southwest	0.13
5	18 07			36.0	32.0	.153	Cirri	1	E. S. E.	0.13
5	20 07			31.5	30.0	.171	Stratus	1	E. S. E.	0.06
5	22 07			31.5	30.5	.178	Cumulo-stratus	8	South	0.06

MARCH 13, 1842.

5	0 07			32.0	31.0	.182	Snow	10	S. S. E	0.13
5	2 07			32.5	31.0	.177	Snow	10	South	0.26
5	4 07			33.0	31.5	.181	Stratus	10	S. S. W.	0.13
n	6 07			35.0	32.5	.175	Cumulo stratus	7	S. S. W.	0.13
5	8 07			36.5	33.0	.187	Cumulo stratus	4	S. S. W.	0.13
5	10 07	62.0	81.0	45 0	41.0	.228	Cumulo-stratus	5	West	0.13
5	Noon	70.0	90.0	48.0	43.0	.236	Stratus	5	Northwest	0.26
5	14 07	82.0	98 0	53.0	47.0	.269	Stratus	5	Northwest	0.52
5	16 07			50.0	45.0	.257	Stratus	10	Northwest	0.26
5	18 07			47.0	42.0	.226	Stratus	7	Northwest	0.13
5	20 07			46 0	42.0	.237	Stratus	10	Calm	0.00
5	22 07			44.5	41.5	.245	Stratus	10	E. N. E.	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 14, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5 55	0 07			43.0	41.0	.251	Cumulo-stratus	10	Calm	0 00
7 55	2 07			43.0	40.0	.230	Rain	10	Calm	0.00
9 55	4 07			41.0	39.0	.232	Rain	10	Calm	0.00
Noon	6 07			40.5	39.0	.238	Stratus	10	Calm	0.00
13 55	8 07			41.5	40.0	.247	Stratus	10	Northwest	0.06
15 55	10 07			42.0	38.5	.211	Stratus	10	E. N. E.	0.13
17 55	Noon			40.0	37.0	.204	Stratus	10	E. N. E.	0.13
19 55	14 07			41.5	40.0	.247	Stratus	10	E. N. E.	0.06
21 55	16 07			42.0	40.0	.241	Stratus	10	N. N. W.	0.13
23 55	18 07			42.0	39.0	.221	Cumulo-stratus	7	N. N. W.	0.06
1 55	20 07			40.0	37.0	.204	Stratus	6	N. N. W.	0.06
3 55	22 07			35.0	32.0	.169	Clear	0	N. N. W.	0.06

MARCH 15, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			34 0	32.0	.179	Cumuli	2	Variable	0.06
7 55	2 07			34.0	32.0	.179	Clear	0	Southwest	0.13
9 55	4 07			32.0	30.0	.166	Clear	0	S. S. W.	0.13
Noon	6 07			32.0	30 0	.166	Clear	0	West	0.13
13 55	8 07	50.0	60.0	37.0	34.0	.180	Clear	0	West	0.13
15 55	10 07	60.0	69.0	48.5	44.0	.253	Cumulo stratus	9	S. W. by W.	0.26
17 55	Noon	70.0	83.0	50.5	44.0	.230	Cumuli	8	Northwest	0.52
19 55	14 07	61.0	70.0	40.5	39.0	.238	Cumuli	8	N. N. W.	0.78
21 55	16 07			46.0	41.5	.228	Rain	10	W. N. W.	3.12
23 55	18 07			45.5	39.5	.192	Cumuli	1	Northwest	0.13
1 55	20 07			41.0	37.0	.192	Cumuli	1	Northwest	0 06
3 55	22 07			37.0	31.0	.180	Clear	0	Calm	0.00

MARCH 16, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			33.0	30.0	.156	Clear	0	Calm	0.00
7 55	2 07			32.5	30.0	.161	Clear	0	Calm	0.00
9 55	4 07			33.0	31.5	.181	Clear	0	S. S. W.	0.06
Noon	6 07			34.0	32.0	.179	Clear	0	S. S. W.	0.06
13 55	8 07			34.5	32.0	173	Clear	0	S. S. W.	0 06
15 55	10 07	70.0	84.0	44.0	38.0	.177	Cirri	0	West	0.13
17 55	Noon	86.0	94.0	47.5	42.0	.220	Clear	0	West	0.13
19 55	14 07	60.0	76.0	54.0	47.0	.257	Cirri	8	Southwest	0.26
21 55	16 07	70.0	90.0	55.0	44.0	.179	Stratus	6	Southwest	0 13
23 55	18 07			52.0	43.0	.190	Stratus	8	Southwest	0.13
1 55	20 07			47.0	41.0	.206	Clear	0	Southwest	0.06
3 55	22 07			45.0	40.0	.207	Clear	0	West	0.13

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 17, 1842.

solar time.	Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
0 07			45.0	40.0	.207	Stratus	7	South	0.13
2 07			44.0	40.0	.218	Stratus	8		0.06
4 07			43.0	40.0	.230	Cumulo-stratus	8	South	0.26
6 07			44.0	40.0	.218	Stratus	6	Southwest	0.26
8 07	52.0	60.0	51.0	44.0	.224	Stratus	8	Southwest	0.13
10 07	70.0	84.0	56.0	52.0	.355	Cirro-stratus	8	Southwest	0.06
Noon	78.0	88.0	66.5	58.0	.394	Stratus	9	W. S. W.	0.26
14 07	69.0	75.0	68.0	62.0	.492	Stratus	9	W. S. W.	0.52
16 07	78.0	85.0	69.0	60.0	.422	Stratus	8	W. S. W.	0.13
18 07			62.0	54.0	.338	Stratus	6	W. S. W.	0.13
20 07			56.0	50.0	.306	Stratus	5	W. S. W.	0.06
22 07			58.0	50.0	.283	Stratus	8	West	0.13

MARCH 18, 1842.

0 07			58.0	51.0	.308	Cirro-stratus	5	Calm	0.00
2 07			57.0	50.0	.295	Cirro-stratus	6	Calm	0.00
4 07			54.0	48.0	.281	Cumuli	10	Calm	0.00
6 07			52.5	46.0	.252	Cumuli	10	Calm	0.00
8 07		56.0	53.0	48.0	.292	Cumuli	9	W. N. W.	0.26
10 07			58.5	52.0	.326				
Noon	81.0	93.0	63.0	54.0	.325	Cirro-stratus	5	W. S. W.	0.13
14 07	88.0	98.0	66.0	56.5	.345	Cirro-stratus	5	W. S. W.	0.06
16 07	74.0	82.0	67.5	58.0	.383	Cirro-stratus	6	W. S. W.	0.06
18 07			62 0	54.0	.338	Cirro-stratus	10	Calm	0 00
20 07			58.0	52.0	.333	Stratus	2	Calm	0.00
22 07			55.0	50.0	.316	Stratus	10	Southwest	0.06

MARCH 19, 1842.

0 07			58.0	52.0	.332	Stratus	10	Southwest	0.52
2 07			52.0	48.0	.303	Rain	10	Northwest	0.52
4 07			50.0	46.0	.280	Rain	10	Northwest	0.13
6 07			46.5	44.0	.276	Stratus	9	Northwest	0.06
8 07			47.0	46.0	.315	Rain	10	West	0.06
10 07	76.0	89.0	55.0	55.0	.442	Clear	0	S. S. E.	0.13
Noon	93.0	95.0	69.0	66.0	.604	Clear	0	S. S. E.	0.06
14 07	97.0	104.0	79.5	68 0	.552	Clear	0	E. S. E.	0.13
16 07	82.0	86.0	82.0	67.0	.492	Cumulo stratus	9	E. S. E.	0.52
18 07			78.0	67.0	.536	Cumulo-stratus	8	E. S. E.	0.06
20 07			72.0	65.0	.539	Clear	0	E. S. E.	0.06
22 07			66.0	61.0	.485	Clear	0	E. S. E.	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 26, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Gottingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	*h. m.*	°	°	°	°	*Inch.*		*10th.*	
5 55	0 07			43.0	40.0	.230	Clear	0	Airs
7 55	2 07			42.5	40.0	.236	Clear	0	Airs
9 55	4 07			40.0	38.5	.234	Clear	0	Airs
Noon	6 07			42.0	40.5	.241	Cumuli	8	N. by W
13 55	8 07	52.0	56.0	50.0	47.0	.303	Cumuli	8	N. N. W.
15 55	10 07	56.0	60.5	51.0	44.0	.224	Cumulo-stratus	7	Northwest
17 55	Noon			51.0	42.5	.191	Cumuli	9	W. N. W.
19 55	14 07	72.0	80.0	51.5	42.0	.175	Cumuli	6	W. N. W
21 55	16 07	56.0	60.0	49.0	42.0	.203	Cumuli	6	W. N. W.
23 55	18 07			45.5	40.0	.201	Cumuli	3	W. N. W.
1 55	20 07			41.5	36.5	.177	Clear	0	West
3 55	22 07			40.5	36.0	.179	Clear	0	West

MARCH 27, 1842.

5 55	0 07			39.5	38.0	.229	Clear	0	West
7 55	2 07			38.0	36.0	.207	Clear	0	West
9 55	4 07			36.0	34.0	191	Clear	0	West
Noon	6 07			37.5	34.5	.184	Clear	0	West
13 55	8 07	56.0	66.0	42.5	38.0	.195	Clear	0	W. by N.
15 55	10 07	72.0	92.0	49.0	43.0	.225	Clear	0	N. W. by W.
17 55	Noon	78.0	92.0	52.5	47.0	.274	Clear	0	N. W. by W.
19 55	14 07	80.0	92.0	56.5	50.0	.299	Clear	0	N. W. by W.
21 55	16 07	77.0	87.0	60.0	54.0	.361	Clear	0	S. S. W.
23 55	18 07	60.0	61.0	57.0	53.0	.369	Clear	0	Southwest
1 55	20 07			50.0	48.0	.327	Clear	0	Southwest
3 55	22 07			49.0	47.0	.315	Clear	0	Southwest

MARCH 28, 1842.

5 55	0 07			49.0	47.0	.315	Clear	0	S. S. W.
7 55	2 07			54.5	52.0	.372	Clear	0	West
9 55	4 07			53.0	51.0	.364	Clear	0	Northwest
Noon	6 07			50.0	48.0	.326	Clear	0	Northwest
13 55	8 07	60.0	68.0	50.0	48.0	.326	Clear	0	W. N. W.
15 55	10 07	69.0	81.0	51.5	41.0	.154	Clear	0	W. N. W.
17 55	Noon	74.0	83.5	54.0	46.0	.235	Cirri	1	West
19 55	14 07	78.0	91.5	57.0	44.5	.281	Cirri	1	West
21 55	16 07	74.0	81.0	58.7	45.0	.272	Cirri	1	W. by N
23 55	18 07			57.0	44.0	.270	Cirri	2	W. N. W.
1 55	20 07			50.5	41.0	.166	Clear	0	North
3 55	22 07			47.0	38.0	.143	Clear	0	N. by E

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 23, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5 55	0 07			41.5	38.0	.206	Cumulo-stratus	10	N. N. W.	0.13
7 55	2 07			40.5	38.0	.218	Cumulo-stratus	10	N. N. W.	0.06
9 55	4 07			40.0	38.0	.223	Cumulo-stratus	10	N. N. W.	0.06
Noon	6 07			39.0	36.0	.196	Cumulo stratus	10	W. by N.	0.06
13 55	8 07			40.0	37.0	.204	Cumulo-stratus	10	Northwest	0.26
15 55	10 07	50.0	58.0	44.0	40.5	.229	Cumulo-stratus	9	Northeast	0.26
17 55	Noon	57.0	65.0	46.5	42.0	.232	Cumulo-stratus	9	Northeast	0.26
19 55	14 07	52.0	57.0	47.5	42.0	.280	Cumulo-stratus	9	E. N. E.	0.26
21 55	16 07			45.6	41.2	.226	Cumulo-stratus	10	Northeast	0.13
23 55	18 07			42.0	39.0	.221	Cumulo-stratus	10	Northeast	0.13
1 55	20 07			40.8	38.0	.214	Cumulo-stratus	10	N. E. by N.	0.26
3 55	22 07			40.5	39.0	.238	Stratus	10	East	0.26

MARCH 24, 1842.

5 55	0 07			39.5	38.0	.229	Stratus	10	S. S. E.	0.13
7 55	2 07			39.5	37.0	.210	Stratus	10	S. S. E.	0.13
9 55	4 07			39.0	37.0	.215	Stratus	10	S. S. E.	0.13
Noon	6 07			39.0	37.0	.215	Stratus	10	S. S. E.	0.13
13 55	8 07			41.0	40.0	.253	Stratus	10	S. S. E.	0.13
15 55	10 07			43.5	40.0	.224	Cumulo-stratus	10	Southeast	0.13
17 55	Noon			44.5	42.0	.255	Stratus	10	Airs	0.06
19 55	14 07			43.5	40.0	.224	Cirro-stratus	10	Southeast	0.13
21 55	16 07			41.0	39.8	.249	Rain	10	Southeast	0.06
23 55	18 07			40.0	38.0	.223	Cumulo-stratus	10	S. S. E.	0.06
1 55	20 07			40.0	38.0	.223	Rain	10	East	0.06
3 55	22 07			38.0	37.0	.227	Rain	10	East	0.13

MARCH 25, 1842.

5 55	0 07			39.0	38.0	.235	Rain	10	E. by N.	0.13
7 55	2 07			39.5	38.0	.229	Rain	10	East	0.13
9 55	4 07			40.0	38.5	.234	Rain	10	E. N. E.	0.13
Noon	6 07			40.0	38.0	.224	Cumulo-stratus	10	Northeast	0.13
13 55	8 07			40.5	38.0	.218	Rain	10	N. N. E.	0.16
15 55	10 07		46.0	45.0	44.0	.293	Cumulo-stratus	10	Northeast	0.13
17 55	Noon		50.0	48.5	47.0	.320	Cumulo-stratus	10	Airs	0.06
19 55	14 07		52.0	50.5	48.0	.321	Stratus	10	East	0.06
21 55	16 07	55.0	60.0	47.5	47.0	.331	Cumulo-stratus	9	Northeast	0.26
23 55	18 07			47.5	46.0	.309	Cumulo-stratus	10	N. N. W.	0.06
1 55	20 07			47.0	46.0	.315	Cirrus	10	Airs	0.06
3 55	22 07			46.0	44.0	.282	Clear	0	Northwest	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MARCH 26, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
5 55	0 07			43.0	40.0	.230	Clear	0	Airs	0.06
7 55	2 07			42.5	40.0	.236	Clear	0	Airs	0.06
9 55	4 07			40.0	38.5	·234	Clear	0	Airs	0.06
Noon	6 07			42.0	40.5	.241	Cumuli	8	N. by W.	0.26
13 55	8 07	52.0	56.0	50.0	47.0	.303	Cumuli	8	N. N. W.	0.39
15 55	10 07	56.0	60.5	51.0	44.0	.224	Cumulo-stratus	7	Northwest	5.21
17 55	Noon			51.0	42.5	.191	Cumuli	9	W. N. W.	0.52
19 55	14 07	72.0	80.0	51.5	42.0	.175	Cumuli	6	W. N. W.	0.52
21 55	16 07	56.0	60.0	49.0	42.0	.203	Cumuli	6	W. N. W.	0 52
23 55	18 07			45.5	40.0	.201	Cumuli	3	W. N. W.	0.26
1 55	20 07			41.6	36.5	.177	Clear	0	West	0.13
3 55	22 07			40.5	36.0	.179	Clear	0	West	0.13

MARCH 27, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			39.5	38.0	.229	Clear	0	West	0.06
7 55	2 07			38.0	36.0	.207	Clear	0	West	0.06
9 55	4 07			36.0	34.0	191	Clear	0	West	0.13
Noon	6 07			37.5	34.5	.184	Clear	0	West	0.13
13 55	8 07	56.0	66 0	42.5	38.0	.195	Clear	0	W. by N.	0.13
15 55	10 07	72.0	92.0	49 0	43.0	.225	Clear	0	N.W.by W.	0.13
17 55	Noon	78.0	92 0	52.5	47.0	.274	Clear	0	N.W.by W.	0.13
19 55	14 07	80.0	92.0	56.5	50.0	.299	Clear	0	N.W.by W.	0.52
21 55	16 07	77.0	87.0	60.0	54.0	.361	Clear	0	S. S. W.	0.52
23 55	18 07	60.0	61.0	57.0	53.0	.369	Clear	0	Southwest	0.26
1 55	20 07			50.0	48.0	.327	Clear	0	Southwest	0.13
3 55	22 07			49.0	47.0	.315	Clear	0	Southwest	0.06

MARCH 28, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			49.0	47.0	.315	Clear	0	S. S. W.	0.06
7 55	2 07			54.5	52.0	.372	Clear	0	West	1.56
9 55	4 07			53.0	51.0	.364	Clear	0	Northwest	5.21
Noon	6 07			50.0	48.0	.326	Clear	0	Northwest	2.64
13 55	8 07	60.0	68.0	50.0	48.0	.326	Clear	0	W. N. W.	2.64
15 55	10 07	69.0	81.0	51.5	41.0	.154	Clear	0	W. N. W.	2.08
17 55	Noon	74.0	83.5	51.0	46.0	.235	Cirri	1	West	3.64
19 55	14 07	78.0	91.5	57.0	44.5	.281	Cirri	1	West	3.12
21 55	16 07	74.0	81.0	58.7	45.0	.272	Cirri	1	W. by N.	3.12
23 55	18 07			57 0	44.0	.270	Cirri	2	W. N. W.	0.52
1 55	20 07			50.5	41.0	.166	Clear	0	North	1 04
3 55	22 07			47.0	38.0	.143	Clear	0	N. by E.	0 13

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL 4, 1842.

an solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
	Washington.	Sun.	Rad.	Dry.	Wet.					
m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			68.5	58.0	.427	Stratus	7	Airs	0.06
55	2 07			61.0	56.0	.402	Stratus	5	Airs	0.06
55	4 07			61.0	56.0	.402	Cumuli	10	Northwest	0.13
on	6 07			56.0	52.0	.355	Cumuli	10	Northwest	0.13
55	8 07			56.0	52.0	.355	Cumulo-stratus	7	North	0.13
55	10 07		60.0	57.5	54.0	.389	Rain	10	Northeast	0.13
55	Noon	66.0	76.0	60.0	56.0	.413	Cirro-stratus	10	E. N. E.	0.13
55	14 07	65.0	74.0	57.5	54.0	.389	Cirro-stratus	10	E. N. E.	0.13
55	16 07		52.0	51.5	48.0	.309	Cirro-stratus	10	E. N. E.	0.78
55	18 07			48.0	48.0	.349	Cirro-stratus	10	N. E. by E.	0.52
55	20 07			45.0	43.0	.270	Cirro-stratus	10	N. E. by E.	0.52
55	22 07			45.0	43.0	.270	Cirro-stratus	10	N. E. by E.	0.52

APRIL 5, 1842.

55	0 07			45.0	43.0	.270	Cumuli	10	Northeast	0.52
55	2 07			45.0	43.5	.282	Cumuli	10	N. E. by E.	0.52
55	4 07			44.0	42.5	.271	Cumuli	10	N. E. by E.	0.06
on	6 07			43.5	42.0	.266	Cumuli	10	N. E. by E.	0.06
55	8 07		52.0	46.0	45.0	.303	Cumuli	10	Northeast	0.06
55	10 07		60.0	51.5	50.5	.369	Cirro-stratus	10	N. W. by N.	0.06
55	Noon	73.0	86.0	60.0	55.0	.386	Cirro-stratus	5	N. W. by N.	0.06
55	14 07	94.0	112.0	60.5	55.0	.380	Clear	0	Calm	0.00
55	16 07	92.0	107.0	65.0	58.0	.411	Clear	0	East	0.13
55	18 07	69.0	63.0	61.5	55.0	.369	Clear	0	East	0.13
55	20 07			54.0	50.0	.327	Cumulo-stratus	1	Calm	0.00
55	22 07			49.0	45.0	.268	Cirro-stratus	1	Calm	0.00

APRIL 6, 1842.

55	0 07			45.0	44.0	.293	Cirro-stratus	1	Calm	0.00
55	2 07			44.0	43.0	.282	Cirro-stratus	2	Calm	0.00
55	4 07			42.0	40.0	.241	Clear	0	Calm	0.00
n	6 07			41.4	41.0	.269	Cirro-stratus	3	Calm	0.00
55	8 07	73.5	85.0	48.3	48.3	.352	Cirri	1	East	0.13
55	10 07	86.0	103.0	57.5	54.0	.388	Cirri	2	Southwest	0.13
55	Noon	86.0	103.0	64.0	58.0	.421	Cirro-stratus	3	Southwest	0.13
55	14 07	90.0	104.0	67.0	58.0	.388	Cirri	5	S. W. by S.	0.13
55	16 07	89.5	104.5	68.4	61.5	.473	Cirri	4	Southwest	0.26
55	18 07			64.0	57.0	.395	Cirro-stratus	9	S. S. W.	0.13
55	20 07			58.0	53.0	.357	Stratus	10	S. S. W.	0.06
55	22 07			56.3	52.0	.352	Stratus	10	South	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
APRIL 1, 1842.										
h. m.	*h. m.*	°	°	°	°	*Inch.*		*10th.*		*Lbs.*
5 55	0 07			37.5	32.0	.143	Clear	0	W. N. W.	0.06
7 55	2 07			35.0	30.0	.135	Clear	0	W. N. W.	0.06
9 55	4 07			32.0	30.0	.166	Clear	0	W. N. W.	0.06
Noon	6 07			30.0	30.0	.186	Cirri	2	W. N. W.	0.06
13 55	8 07	52.0	70.0	36.0	32.0	.158	Cirri	2	W. N. W.	0.06
15 55	10 07	63.0	84.0	40.0	33.0	.126	Cirro-stratus	2	N. N. W.	0.26
17 55	Noon	68.0	87.0	44.0	38.0	.177	Clear	0	Northwest	0.52
19 55	14 07	73.0	88.0	47.0	39.0	.164	Stratus	2	Calm	0.00
21 55	16 07	78.0	84.0	50.0	43.0	.213	Clear	0	Calm	0.00
23 55	18 07			49.5	41.0	.177	Cirro-stratus	2	Calm	0.00
1 55	20 07			42.5	37.0	.175	Clear	0	Calm	0.00
3 55	22 07			39.0	37.0	.215	Clear	0	Calm	0.00
APRIL 2, 1842.										
5 55	0 07			40.0	37.5	.214	Cumuli	1	S. by W.	0.52
7 55	2 07			41.0	38.0	.212	Cumuli	1	S. by W.	1.04
9 55	4 07			41.5	38.0	.206	Stratus	8	S. by W.	0.26
Noon	6 07			45.0	41.0	.228	Cirro-stratus	6	S. by W.	0.26
13 55	8 07	53.0	60.0	48.0	46.0	.303	Cirro-stratus	7	S. by W.	0.26
15 55	10 07	73.5	91.5	56.5	51.0	.323	Stratus	4	S. S. W.	0.52
17 55	Noon	82.0	95.5	64.5	56.0	.361	Stratus	4	S. S. W.	0.52
19 55	14 07	88.0	97.0	71.0	58.5	.470	Stratus	4	S. S. W.	0.78
21 55	16 07	84.0	96.5	72.5	60.0	.383	Stratus	4	S. S. W.	1.04
23 55	18 07			67.0	56.0	.385	Stratus	4	S. S. W.	0.78
1 55	20 07			63.5	54.0	.322	Stratus	4	S. S. W.	1.04
3 55	22 07			59.0	51.5	.308	Stratus	4	S. by W.	0.52
APRIL 3, 1842.										
5 55	0 07			56.5	50.0	.299	Stratus	4	S. by W.	0.26
7 55	2 07									
9 55	4 07			54.0	49.0	.304	Cirro-stratus	6	S. S. W.	0.13
Noon	6 07			54.0	50.5	.340	Cirro-stratus	6	S. S. W.	0.26
13 55	8 07	71.5	83.5	59.5	57.0	.445	Cirro-stratus	5	S. S. W.	0.39
15 55	10 07	80.0	100.0	68.5	62.0	.486	Cirro-stratus	5	Southwest	0.26
17 55	Noon	80.0	90.0	77.0	68.0	.580	Cirri	8	Southwest	0.26
19 55	14 07	86.0	96.0	83.0	68.0	.513	Cirri	5	Southwest	0.13
21 55	16 07	74.0	74.0	78.0	68.0	.569	Stratus	9	S. S. W.	0.06
23 55	18 07			73.0	64.0	.496	Stratus	10	South	0.13
1 55	20 07			68.0	62.0	.492	Cumulo-stratus	10	Southerly	0.06
3 55	22 07			65.0	60.0	.467	Cumulo-stratus	7	Southerly	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL 10, 1842.

ime.	Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot
Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	°	°	°	°	Inch.		10th.		Lbs.
0 07			48.5	45.0	.274	Stratus	10	West	0.13
2 07			48.3	44.5	.266	Cumulo-stratus	7	West	0.26
4 07			44.2	41.0	.238	Clear	0	West	0.06
6 07			42.2	42.0	.281	Clear	0	Calm	0.00
8 07	73.5	85.0	47.4	45.0	.287	Clear	0	W. N. W.	0.06
10 00	84.0	100.0	53.5	48.0	.286	Clear	0	N. N. W.	0.13
Noon	80.0	95.0	58.5	52.0	.327	Clear	0	N. N. W.	0.13
14 07	89.0	100.0	63.0	56.0	.380	Clear	0	Northwest	0.13
16 07			67.0	58.0	.388	Stratus	7	Northwest	0.06
18 07			60.5	55.0	.380	Rain	10	Airs	0.06
20 07			56.5	53.0	.375	Cumuli	10	Airs	0.06
22 07			56.5	52.0	.350	Rain	10	Airs	0.06

APRIL 11, 1842.

0 07			54.0	51.0	.352	Cumulo-stratus	7	Airs	0.06
2 07			53.0	50.0	.339	Cumulo-stratus	3	North	0 13
4 07			52.0	49.0	.327	Clear	0	Airs	0.06
6 07			55.0	53.0	.392	Clear	0	N. by E.	0.13
8 07	76.0	80.0	57.0	54.0	.394	Clear	0	North	0.13
10 07	88.0	106.0	64.0	54.5	.329	Clear	0	Northwest	0.52
Noon	87.0	104.0	66 5	56 0	.340	Clear	0	Northwest	0.78
14 07	90.0	106.0	70.5	60.0	.405	Clear	0	Northwest	0.52
16 07	92.0	100.0	74.5	70.0	.677	Clear	0	N.W.by W.	0.26
18 07	76.0	74.0	73.0	69.0	.659	Clear	0	Northwest	0.06
20 07			64.0	59.0	.450	Clear	0	Airs	0.06
22 07			56.0	52.0	.355	Clear	0	Airs	0.06

APRIL 12, 1842.

0 07			55.5	52.0	.361	Clear	0	Airs	0.06
2 07			54.0	52.0	.378	Clear	0	Airs	0.06
4 07			52.0	50.0	.351	Stratus	6	Airs	0.06
6 07			55.0	52.0	.366	Stratus	4	N. N. E.	0.13
8 07	*76.0	*67.0	57.0	53.5	.382	Cirri	3	North	0.13
10 07	90.0	102.0	64.0	55.0	.341	Cirri	2	E. N. E.	0.13
Noon	92.0	104.0	67.0	56.0	.335	Cirri	3	E. N. E.	0.13
14 07	80.0	87.0	72.0	64.0	.507	Cirri	6	E. S. E.	0.13
16 07			69.0	60.0	.422	Stratus	7	E. S. E.	0.13
18 07			65.0	58.0	.411	Stratus	10	E. S. E.	0.06
20 07			59.0	53.0	.347	Stratus	10	Southeast	0.06
22 07			57.0	51.0	.319	Stratus	10	S. S. E.	0.13

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* Probably transposed.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL 7, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion clouded.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	*h. m.*	°	°	°	°	*Inch.*		*10th.*	
5 55	0 07			55.0	51.5	.354	Stratus	3	South
7 55	2 07			54.0	52.0	.378	Stratus	10	Calm
9 55	4 07			54.0	52.2	.382	Rain	10	S. S. E.
Noon	6 07			53.8	52.7	.397	Cumulo-stratus	8	Calm
13 55	8 07			58.2	57.0	.460	Cumulo-stratus	8	Southwest
15 55	10 07	80.0	90.0	67.0	64.0	.568	Cirro-stratus	5	Southwest
17 55	Noon	88.0	100.0	72.0	65.0	.540	Rain	10	S. S. W.
19 55	14 07	84.0	96.0	80.0	68.0	.549	Cirro-stratus	7	South
21 55	16 07	83.0	100.0	83.0	68.0	.516	Cirro-stratus	8	S. S. W.
23 55	18 07	78.0	86.0	77.0	64.0	.454	Cirro-stratus	8	Southwest
1 55	20 07			73.0	64.0	.498	Cirro-stratus	10	West
3 55	22 07			63.0	60.0	.490	Stratus	10	Northeast
APRIL 8, 1842.									
5 55	0 07			59.0	56.0	.424	Stratus	10	Northeast
7 55	2 07			56.0	54.0	.406	Cumulo-stratus	10	Northeast
9 55	4 07			56.0	54.0	.406	Cumulo-stratus	10	Northeast
Noon	6 07			54.0	52.0	.378	Cumulo-stratus	10	Northeast
13 55	8 07			56.0	54.0	.406	Stratus	10	Airs
15 55	10 07	74.0	88.0	60.5	56.0	.408	Cirro-stratus	10	N. E. by E.
17 55	Noon	92.0	98.0	64.5	58.0	.416	Cirro-stratus	8	E. by S.
19 55	14 07			64.5	59.0	.444	Cirro-stratus	10	Northeast
21 55	16 07			56.0	54.0	.406	Rain	10	Northeast
23 55	18 07			53.0	50.5	.352	Rain	10	Northeast
1 55	20 07			50.0	48.0	.327	Rain	10	S. E. by E.
3 55	22 07			49.0	49.0	.361	Rain	10	E. S. E.
APRIL 9, 1842.									
5 55	0 07			47.0	45.0	.292	Rain	10	E. S. E.
7 55	2 07			46.0	45.0	.303	Rain	10	E. S. E.
9 55	4 07			45.5	43.0	.265	Rain	10	Northeast
Noon	6 07			44.0	42.0	.261	Rain	10	North
13 55	8 07			44.5	44.0	.298	Rain	10	N. N. W.
15 55	10 07			47.3	45.0	.277	Cumulo-stratus	10	N. W. by W.
17 55	Noon			50.2	47.0	.301	Cumulo-stratus	10	N. W. by W.
19 55	14 07			53.0	48.7	.293	Cumulo-stratus	10	N. W. by W.
21 55	16 07			50.2	48.0	.324	Rain	10	N. W. by W.
23 55	18 07	52.0	52.0	51.3	48.0	.312	Cirro-stratus	9	N. W. by W.
1 55	20 07			50.5	46.3	.282	Stratus	10	N. W. by W.
3 55	22 07			48.7	44.8	.268	Stratus	10	N. W. by W.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL 10, 1842.

solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot
	Washington.	Sun.	Rad.	Dry.	Wet.					
n.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5	0 07			48.5	45.0	.274	Stratus	10	West	0.13
5	2 07			48.3	44.5	.266	Cumulo-stratus	7	West	0.26
5	4 07			44.2	41.0	.238	Clear	0	West	0.06
n	6 07			42.2	42.0	.281	Clear	0	Calm	0.00
5	8 07	73.5	85.0	47.4	45.0	.287	Clear	0	W. N. W.	0.06
5	10 00	84.0	100.0	53.5	48.0	.286	Clear	0	N. N. W.	0.13
5	Noon	80.0	95.0	58.5	52.0	.327	Clear	0	N. N. W.	0.13
5	14 07	89.0	100.0	63.0	56.0	.380	Clear	0	Northwest	0.13
5	16 07			67.0	58.0	.388	Stratus	7	Northwest	0.06
5	18 07			60.5	55.0	.380	Rain	10	Airs	0.06
5	20 07			56.5	53.0	.375	Cumuli	10	Airs	0.06
5	22 07			56.5	52.0	.350	Rain	10	Airs	0.06

APRIL 11, 1842.

5	0 07			54.0	51.0	.352	Cumulo-stratus	7	Airs	0.06
5	2 07			53.0	50.0	.339	Cumulo-stratus	3	North	0 13
5	4 07			52.0	49.0	.327	Clear	0	Airs	0.06
n	6 07			55.0	53.0	.392	Clear	0	N. by E.	0.13
5	8 07	76.0	80.0	57.0	54.0	.394	Clear	0	North	0.13
5	10 07	88.0	106.0	64.0	54.5	.329	Clear	0	Northwest	0.52
5	Noon	87.0	104.0	66 5	56 0	.340	Clear	0	Northwest	0.78
5	14 07	90.0	106.0	70.5	60.0	.405	Clear	0	Northwest	0.52
5	16 07	92.0	100.0	74.5	70.0	.677	Clear	0	N.W.by W.	0.26
5	18 07	76.0	74.0	73.0	69.0	.659	Clear	0	Northwest	0.06
5	20 07			64.0	59.0	.450	Clear	0	Airs	0.06
5	22 07			56.0	52.0	.355	Clear	0	Airs	0.06

APRIL 12, 1842.

5	0 07			55.5	52.0	.361	Clear	0	Airs	0.06
5	2 07			54.0	52.0	.378	Clear	0	Airs	0.06
5	4 07			52.0	50.0	.351	Stratus	6	Airs	0.06
n	6 07			55.0	52.0	.366	Stratus	4	N. N. E.	0.13
5	8 07	*76.0	*67.0	57.0	53.5	.382	Cirri	3	North	0.13
5	10 07	90.0	102.0	64.0	55.0	.341	Cirri	2	E. N. E.	0.13
5	Noon	92.0	104.0	67.0	56.0	.335	Cirri	3	E. N. E.	0.13
5	14 07	80.0	87.0	72.0	64.0	.507	Cirri	6	E. S. E.	0.13
5	16 07			69.0	60.0	.422	Stratus	7	E. S. E.	0.13
5	18 07			65.0	58.0	.411	Stratus	10	E. S. E.	0.06
5	20 07			59.0	53.0	.347	Stratus	10	Southeast	0.06
5	22 07			57.0	51.0	.319	Stratus	10	S. S. E.	0.13

* Probably transposed.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL 13, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5 55	0 07			56.0	50.0	.306	Cirro-stratus	10	Calm	0.00
7 55	2 07			56.0	48.0	.259	Rain	10	Calm	0.00
9 55	4 07			51.0	47.0	.292	Rain	10	Southeast	0.13
Noon	6 07			49.5	46.0	.287	Rain	10	Southeast	0.13
13 55	8 07			49.5	46.0	.287	Rain	10	Southeast	0.13
15 55	10 07			50.0	47.0	.303	Rain	10	E. N. E.	0.26
17 55	Noon			49.5	47.0	.309	Stratus	10	E. N. E.	0.26
19 55	14 07			50.0	48.0	.327	Stratus	10	E. N. E.	0.26
21 55	16 07			50.0	48.0	.327	Rain	10	E. N. E.	0.26
23 55	18 07			49.5	48.0	.332	Rain	10	E. N. E.	0.25
1 55	20 07			47.5	46.0	.309	Rain	10	East	0.13
3 55	22 07			48.0	47.5	.337	Stratus	10	Calm	0.00

APRIL 14, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
5 55	0 07			48.0	47.5	.337	Stratus	10	East	0.06
7 55	2 07			48.0	47.5	.337	Stratus	10	East	0.05
9 55	4 07			48.0	47.5	.337	Rain	10	East	0.06
Noon	6 07			47.0	46.0	.315	Rain	10	W. N. W.	0.06
13 55	8 07			48.5	46.0	.298	Cumulo stratus	9	Northwest	0.26
15 55	10 07	75.5	85.0	50.5	46.0	.272	Cirro-stratus	3	W. N. W.	0.26
17 55	Noon	80.5	93.8	57.3	49.5	.280	Cirro-stratus	1	W. N. W.	0.13
19 55	14 07	83.2	98.8	60.0	50.2	.266	Cirro cumulus	2	West	0.26
21 55	16 07	85.5	102.5	64.0	52.8	.286	Cirro-cumulus	1	West	0.13
23 55	18 07	71.0	66.0	63.8	53.0	.293	Cirro-cumulus	1	West	0.06
1 55	20 07			54.5	48.2	.280	Stratus	1	Calm	0.00
3 55	22 07			50.7	46.0	.273	Cumulo-stratus	3	Calm	0.00

APRIL 15, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
5 55	0 07			47.0	43.3	.255	Cumulo-stratus	1	Calm	0.00
7 55	2 07			45.5	41.5	.233	Cumulo stratus	1	E. S. E.	0.06
9 55	4 07			42.8	39.8	.229	Cumulo-stratus	1	E. S. E.	0.06
Noon	6 07			41.2	39.0	.230	Cirro-stratus	4	Calm	0.00
13 55	8 07	69.5	73.0	49.8	48.5	.340	Cirro-stratus	3	S. S. W.	0.06
15 55	10 07	90.0	100.0	56.0	51.0	.329	Clear	0	Southwest	0.06
17 55	Noon	80.0	96.0	61.0	54.0	.350	Clear	0	S. S. W.	0.13
19 55	14 07	82.0	90.0	62.0	54.5	.351	Clear	0	Southwest	0.26
21 55	16 07	80.0	90.0	66.0	56.0	.346	Clear	0	Southwest	0.13
23 55	18 07			64.0	52.0	.265	Clear	0	South	0.13
1 55	20 07			55.0	47.0	.247	Clear	0	South	0.06
3 55	22 07			53.0	50.0	.339	Cirro-stratus	7	South	0.06

n solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
.	Washington.	Sun.	Rad.	Dry.	Wet.					
				APRIL 16, 1842.						
n.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5	0 07			56.0	49.0	.293	Cirro-stratus	10	Northeast	0.13
5	2 07			53.0	46.0	.246	Cumulo stratus	10	N. N. E.	0.13
5	4 07			50.0	44.0	.236	Cumulo-stratus	8	Northeast	0.13
n	6 07			49.0	43.0	.225	Cirro-stratus	5	Northeast	0.06
5	8 07			50 0	46.0	.280	Cirro stratus	10	Northeast	0.13
5	10 07	66.0	74.0	51.5	49.0	.298	Cumulo-stratus	10	Northeast	0.13
5	Noon	74.0	86.0	57.5	51.0	.312	Cirro-stratus	7	Southeast	0.26
5	14 07	70.0	78.0	59.0	50.0	.270	Cirro-stratus	8	E. S. E.	0.26
5	16 07			54.0	49.0	.304	Cirro-stratus	10	E. S. E.	0.26
5	18 07			52.0	48.0	.303	Cumulo-stratus	7	E. S. E.	0.26
5	20 07			51.0	46.0	.269	Cumulo stratus	10	Airs	0 06
5	22 07			49.0	45.5	.274	Cumulo-stratus	10	Airs	0.06
				APRIL 17, 1842.						
5	0 07			43.5	44.0	.253	Cumuli	10	Southeast	0.26
5	2 07			47.0	44.0	.270	Cumuli	10	S. E by E.	0.26
5	4 07			45.0	43 0	.270	Cumuli	10	E. S. E	0.52
n	6 07			44 0	42.0	.260	Cumuli	10	E. S. E.	0.52
5	8 07			47.0	45.0	.291	Rain	10	N E. by E.	0.78
5	10 07			48.0	44.0	.258	Stratus	10	N. E. by E.	1.04
5	Noon			49 0	46 0	.282	Rain	10	Northeast	3.02
5	14 07			50 0	47.0	.303	Rain	10	Northeast	5.20
5	16 07			46.0	45.0	.303	Rain	10	Northeast	3.02
5	18 07			41.5	44.0	.298	Rain	10	Northeast	3 54
5	20 07			45.0	44.0	.293	Rain	10	Northeast	3 02
5	22 07			46.0	44.0	.282	Rain	10	Northeast	3.54
				APRIL 18, 1842.						
5	0 07			45 0	43.0	.271	Rain	10	E. N E.	3.54
5	2 07			45.0	42.5	.260	Rain	10	E N. E.	3.54
5	4 07			45.5	43.0	.265	Rain	10	E. N. E.	2 08
n	6 07			45.5	44 0	.287	Rain	10	E. N. E.	2.08
5	8 07			46 0	44.5	.292	Rain	10	N N. E.	2 60
5	10 07			48.0	46 0	.304	Rain	10	N. E. by N.	0.13
5	Noon			47.5	46.0	.309	Rain	10	N. E. by N.	0.39
5	14 07			48.0	46 0	.304	Rain	10	N. E. by N.	0.39
5	16 07			47.0	44.5	.281	Rain	10	N E. by N	0.39
5	18 07			46 5	41.0	.276	Rain	10	N E. by N.	0.39
5	20 07			46 5	46.0	.320	Rain	10	N. E. by N	0.26
5	22 07			45.5	44.0	.287	Stratus	10	N. E. by N.	0.26

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL 19, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5 55	0 07			45 0	44.0	.293	Stratus	10	N. E. by N.	0.26
7 55	2 07			45.0	44.0	.293	Rain	10	N. E. by N.	0.26
9 55	4 07			45 0	44.0	.293	Rain	10	N. E by N.	0.52
Noon	6 07			43.5	42.0	.266	Rain	10	N. E. by N.	0.52
13 55	8 07			43 5	42.0	.266	Rain	10	N. E. by N.	0.52
15 55	10 07			44.4	43.0	.277	Rain	10	N. N. E.	0.26
17 55	Noon			43.8	43.5	.299	Rain	10	Calm	0.00
19 55	14 06			47.7	47.0	.329	Cumulo-stratus	10	N. E. by N.	0.13
21 55	16 07			51.7	49.3	.338	Cumulo-stratus	10	N. E. by N.	0.26
23 55	18 07			49.3	47.3	.318	Stratus	10	N. N. E.	0.06
1 55	20 07			47.7	46.3	.313	Rain	10	N.W. by N.	0.06
3 55	22 07			47.3	46.0	.311	Stratus	10	W. by S.	0.13

APRIL 20, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			47.0	46.0	.315	Stratus	10	W. N. W.	0.06
7 55	2 07			47.0	46.0	.315	Stratus	10	Southwest	0.05
9 55	4 07			46.3	45.0	.299	Cumulo stratus	5	W. S W.	0.06
Noon	6 07			46.0	46.0	.326	Cirro stratus	9	Calm	0.00
13 55	8 07			52.5	51.8	.389	Cumulo-stratus	9	Northwest	0.13
15 55	10 07			56.5	51.5	.337	Cumulo-stratus	10	N. N. W.	0.13
17 55	Noon			57.0	53.0	.369	Cumulo-stratus	10	Northwest	0.13
19 55	14 07			60.0	54.0	.361	Cumulo-stratus	10	Northwest	0.26
21 55	16 07			60.0	54.0	.361	Cumulo-stratus	7	Northwest	0.13
23 55	18 07			57.0	50.0	.295	Cirro stratus	5	Northwest	0.06
1 55	20 07			51.0	48.0	.315	Cirro-stratus	5	Northwest	0.06
3 55	22 07			52.0	48.0	.304	Cirri	5	Variable	0.06

APRIL 21, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			47.0	44 0	.270	Cirri	5	Northeast	0.06
7 55	2 07			47.0	43.0	.247	Cirri	7	Northeast	0.06
9 55	4 07			46.0	42.0	.237	Clear	0	Variable	0.06
Noon	6 07			48.5	44 0	.253	Clear	0	Variable	0.06
13 55	8 07			55.0	50.0	.316	Clear	0	Variable	0.06
15 55	10 07	81.0	97.0	60.5	55.0	.379	Cirro-stratus	2	Northeast	0.13
17 55	Noon	88.0	102.0	62.0	56.0	.390	Cirro-stratus	1	Northeast	0.13
19 55	14 07	90.0	98.0	67.2	60.0	.442	Cirro-cumulus	8	Variable	0.06
21 55	16 07	86.0	102.0	68.0	62.0	.492	Cirri	7	Calm	0.00
23 55	18 07	81.0	84.0	70.0	63.0	.500	Cirri	7	Calm	0.00
1 55	20 07			58.0	53.0	.357	Cirri	6	Calm	0.00
3 55	22 07			54.0	49.0	.304	Cirri	4	Calm	0.00

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL 22, 1842.

an solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
ottingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
m.	h. m.	°	°	°	°	°		10th.		Lbs.
55	0 07			52.0	48.0	.303	Cirri	4	Calm	0.00
55	2 07			52.0	50.0	.350	Cirri	3	Calm	0.00
55	4 07			52.0	52.0	.400	Cirri	3	Calm	0.00
oon	6 07			52.0	51.0	.375	Cirri	2	Calm	0.00
55	8 07	63.0	69.0	55.0	54 0	.417	Clear	0	Southwest	0.26
55	10 07	84.0	92.0	63.0	60.0	.489	Clear	0	S. W. by W.	0.13
55	Noon	92.0	104.0	70.0	66.0	.593	Clear	0	S. W. by W.	0.13
55	14 07	94.0	104.5	76.0	68.0	.591	Clear	0	S. W. by W.	0.13
55	16 07	94.0	100.5	78.5	68.5	.580	Clear	0	S. W. by W.	0.13
55	18 07	76.0	80.0	74.0	64 5	.495	Clear	0	S. W. by W.	0.13
55	20 07			66.5	60.0	.450	Clear	0	S. W. by W.	0.13
55	22 07			65.0	58.0	.422	Cirro-stratus	4	S. W. by W.	0.18

APRIL 23, 1842.

55	0 00			63.0	58.5	.448	Cirri	3	S. W. by W.	0.06
55	2 00			60.0	56.0	.413	Cirri	3	Calm	0.00
55	4 00			60.0	58.0	.467	Cirri	5	Calm	0.00
oon	6 00			60.0	60.0	.523	Cirri	5	Calm	0.00
55	8 00	82.5	94.0	71.5	64.0	.513	Stratus	6	Northwest	0.06
55	10 00	96.0	102.3	76.8	66.0	.527	Cirro-stratus	4	N. W. by N.	0.06
55	Noon	95.8	112.0	78.8	66.0	.494	Cirro-stratus	7	W. by S.	0.13
55	14 00	98.7	114.0	81.2	67.0	.500	Cirro-stratus	8	W. by S.	0.13
55	16 00	83.0	89.8	79.8	66.0	.483	Cirro-stratus	7	East	0.18
55	18 00	73.5	75.8	73 5	62.3	.440	Cirro stratus	8	East	0.06
55	20 00			64.5	58.0	.416	Stratus	6	E. by S.	0.06
55	22 00			59.7	55.0	.389	Cirro-stratus	6	Calm	0.00

APRIL 24, 1842.

55	0 07			56.5	52.5	.361	Cirro-stratus	5	Calm	0.00
55	2 07			55.3	52.2	.367	Stratus	10	Calm	0.00
55	4 07			54.7	52.2	.374	Cumulo-stratus	10	N. E. by E.	0.06
oon	6 07			54.4	52.0	.373	Cumulo stratus	9	Northeast	0.06
55	8 07	73.5	88.8	59.0	57.6	.467	Cirro-stratus	5	S. E. by S.	0.06
55	10 07	74.5	82.7	67.5	61.5	.563	Stratus	10	Southeast	0.06
55	Noon	89.0	100.0	73.0	66.0	.560	Stratus	7	S. S. E.	0.06
55	14 07	90.0	100.0	74.0	68.0	.614	Stratus	5	South	0.06
55	16 07	94.0	104.0	77.5	70 0	.643	Stratus	9	S. S. E.	0.06
55	18 07	90.0	100.0	72.0	65.0	.539	Stratus	9	Southward	0.06
55	20 07			64.5	61.0	.502	Cirro-stratus	8	Southward	0.06
55	22 07			63.5	60.5	.498	Cirro-stratus	10	Southward	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
APRIL 25, 1842.									
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*	
5 55	0 07			63.0	61.0	.519	Cumulo-stratus	10	Calm
7 55	2 07			62.5	61.0	.524	Cumulo-stratus	10	Calm
9 55	4 07			63.0	61.5	.533	Cumulo-stratus	10	Calm
Noon	6 07			63.0	62 0	.548	Cumulo-stratus	10	Calm
13 55	8 07			65.0	62.5	.540	Cumulo-stratus	10	Calm
15 55	10 07	90.0	108.0	70.5	68.0	.653	Cumulo-stratus	2	W. S. W
17 55	Noon	100.0	110.0	76.0	72.5	.749	Stratus	2	W. S. W.
19 55	14 07	104.0	116.0	84.0	74.0	.717	Cumulo-stratus	2	W. S. W.
21 55	16 07	98.0	104.0	85.0	74.0	.706	Cumulo-stratus	2	W. S. W.
23 55	18 07		84.0	81.0	72.0	.676	Cumulo-stratus	1	W. S. W
1 55	20 07			74.0	66.0	.550	Clear	0	W. S. W.
3 55	22 07			71.5	64.5	.530	Clear	0	W. S. W.
APRIL 26, 1842.									
5 55	0 07			69.0	62.5	.495	Clear	0	W. S. W.
7 55	2 07			69.0	62.0	.481	Clear	0	W. S. W.
9 55	4 07			69 0	62.0	.481	Clear	0	W. S. W.
Noon	6 07			68.0	66.0	.616	Cirri	4	W. S. W.
13 55	8 07	82.0	96.0	72.5	68.0	.631	Cirri	4	W. S. W.
15 55	10 07	91.0	107.5	76.0	69.0	.627	Cirrc-stratus	3	S. S. W.
17 55	Noon	92.0	105.0	79.5	69.2	.595	Cirro-stratus	5	S. S. W.
19 55	14 07	88.0	95.0	83.3	70.8	.610	Cumulo-stratus	8	S. S. W.
21 55	16 07			66.0	62.8	.539	Rain	10	S. S. W.
23 55	18 07			65.7	63.4	.561	Rain	10	Calm
1 55	20 07			63.7	61.8	.534	Rain	10	Calm
3 55	22 07			57.7	56.0	.439	Rain	10	W. N. W.
APRIL 27, 1842.									
5 55	0 07			58.2	52.5	.344	Cumulo stratus	9	W. N. W.
7 55	2 07			53.8	47.0	.261	Cirro-cumulus	2	W. N. W.
9 55	4 07			50.8	45.0	.249	Cumuli	2	W. S. W.
Noon	6 07.			50.8	47.0	.294	Clear	0	Southwest
13 55	8 07	72.0	83.5	54.7	49.0	.297	Clear	0	S. S. W.
15 55	10 07	72.0	83.0	59.5	51.5	.305	Cirri	5	Southwest
17 55	Noon	74.0	90.0	60.0	48.0	.214	Cirro-stratus	5	West
19 55	14 07	80.0	95.0	65.0	50.5	.218	Cirro-stratus	7	West
21 55	16 07	76.0	84.0	63.0	50.0	.227	Cirro-stratus	5	West
23 55	18 07			60.0	48.0	.214	Cirro-stratus	5	West
1 55	20 07			52.0	44.0	.214	Cirro-stratus	2	West
3 55	22 07			47.5	43.0	.243	Clear	0	West

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

APRIL 28, 1842.

an solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
	Washington.	Sun.	Rad.	Dry.	Wet.					
m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			47.5	43.0	.243	Stratus	9	West	0.26
55	2 07			47.0	43.0	.248	Cumulo-stratus	9	W. by S.	0.13
55	4 07			45.5	42.3	.250	Cumulo-stratus	10	Southwest	0.13
on	6 07			50.7	44.5	.240	Clear	0	S. S. W.	0.56
55	8 07	60.0	72.0	50.5	42.0	.188	Clear	0	Southwest	0.56
55	10 07	72.0	86.5	53.5	44.0	.198	Cumuli	4	W. N. W.	0.52
55	Noon	68.5	80.0	54.5	46.0	.231	Cumuli	6	W. N. W.	0.56
55	14 07	76.0	88.0	55.0	46.0	.225	Cumuli	5	W. N. W.	0 56
55	16 07	76.0	84.0	57.5	50.0	.289	Cumuli	1	W. N. W.	0.56
55	18 07	60.0	62.0	55 5	48.0	.265	Clear	0	W. N. W.	0.26
55	20 07			49.5	46.5	.297	Clear	0	Calm	0.00
55	22 07			44.5	40.0	.213	Clear	0	Calm	0.00

APRIL 29, 1842.

55	0 07			40.5	36.5	.188	Clear	0	Calm	0.00
55	2 07			38.5	36.0	.202	Clear	0	West	0.06
55	4 07			39.5	36.0	.190	Clear	0	West	0.06
n	6 07			48.5	46.0	.298	Clear	0	West	0 06
55	8 07	68.0	78.0	54.5	47.0	.252	Cirri	1	W. S. W.	0.26
55	10 07	79.5	94.0	58.4	49.4	.265	Cirro-stratus	2	Southwest	0.78
55	Noon	77.2	89.8	64.8	53.0	.282	Stratus	9	S.W. by W.	0.52
55	14 07			65.0	53.3	.287	Stratus	10	Southwest	0.13
55	16 07			61.4	51.3	.277	Stratus	10	W. S. W.	0.78
55	18 07			57.0	50.0	.295	Stratus	10	Southwest	1.04
55	20 07			51.0	47.0	.292	Cirro-stratus	4	W. by S.	0.06
55	22 07			48.5	45.0	.275	Stratus	1	West	0.06

APRIL 30, 1842.

5	0 07			44.5	40.0	.214	Clear	0	Calm	0.00
5	2 07			42.5	39.0	.216	Clear	0	North	0.06
5	4 07			41.0	39.0	.233	Clear	0	S. S. W.	0.06
n	6 07			44.0	46.0	.236	Clear	0	West	0.06
5	8 07	68.2	79.2	52.5	50.0	.345	Cirri	7	N. N. E.	0.06
5	10 07	82.5	98.5	57.0	52.0	.344	Cirri	5	N. N. E.	0.06
5	Noon	84.5	98.5	64.5	56.0	.363	Cirro-stratus	5	N. N. E.	0.06
5	14 07	92.0	102.0	67.5	59.5	.425	Cirro-stratus	2	N. N. E.	0.06
5	16 07	68.5	72.0	67 5	60.0	.439	Stratus	10	Northeast	0.13
5	18 07	60.0	68.0	65.5	56.0	.352	Stratus	10	N'd & E'd	0.06
5	20 07			56.5	51.5	.337	Cumulo-stratus	10	Variable	0.06
5	22 07			55.5	52.0	.361	Cumuli	10	West	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 1, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	h. m.	°	°	°	°	Inch.		10th.	
5 55	0 07			53.5	50.0	.335	Cumulo-stratus	3	West
7 55	2 07			52.0	50.0	.351	Stratus	2	West
9 55	4 07			51.5	48.0	.310	Clear	0	Variable
Noon	6 07			56.0	54.0	.406	Clear	0	Variable
13 55	8 07	64.0	66.0	61.5	58.0	.450	Stratus		Variable
15 55	10 07	80.0	94.0	65.5	64.0	.581	Cumulo-stratus	8	W. by S.
17 55	Noon	90.0	104.0	72.0	64.5	.524	Cirro-cumulus	4	S. S. W.
19 55	14 07	92.0	104.0	72.5	64.0	.503	Cirro-cumulus	2	S. S. W.
21 55	16 07	90.0	92.5	77.5	70.0	.524	Cumuli	3	S. S. W.
23 55	18 07	84.0	86.0	78.0	66.0	.506	Cumuli	1	Southwest
1 55	20 07			67.5	60.0	.440	Clear	0	Calm
3 55	22 07			62.5	56.0	.386	Stratus	1	Calm

MAY 2, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			56.0	54.0	.406	Clear	0	Calm
7 55	2 07			56.0	52.0	.356	Clear	0	Calm
9 55	4 07			56.0	52.0	.356	Stratus	6	Calm
Noon	6 07			55.0	54.0	.417	Rain	10	East
13 55	8 07			55.0	54.0	.417	Rain	10	East
15 55	10 07			55.5	54.0	.412	Rain	10	N. by W.
17 55	Noon			58.5	57.5	.470	Rain	10	Southeast
19 55	14 07			68.2	64.0	.551	Cumuli	10	W. N. W
21 55	16 07			53.0	51.5	.376	Rain	10	Northeast
23 55	18 07			52.5	51.0	.369	Cir-str. & cum.	10	N. by W.
1 55	20 07			52.0	50.5	.363	Rain	10	N. N. W.
3 55	22 07			52.0	50.0	.351	Rain	10	N. N. E.

MAY 3, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			49.2	46.0	.290	Violent rain	10	Northeast
7 55	2 07			46.2	44.0	.279	Violent rain	10	North
9 55	4 07			45.5	44.0	.287	Rain	10	N. N. E.
Noon	6 07			45.5	44.0	.287	Rain	10	N. N. E.
13 55	8 07			45.7	45.0	.306	Rain	10	N. N. E.
15 55	10 07			45.5	45.0	.308	Rain	10	Northeast
17 55	Noon			47.0	46.0	.315	Rain	10	Northeast
19 55	14 07			47.5	46.5	.320	Cumuli	10	Northeast
21 55	16 07			47.5	46.0	.309	Rain	10	N. N. E.
23 55	18 07			47.0	46.0	.315	Rain	10	Northeast
1 55	20 07			46.0	45.0	.303	Rain	10	Northeast
3 55	22 07			45.0	43.0	.271	Rain	10	Northeast

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 4, 1842.

an solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
	Washington.	Sun.	Rad.	Dry.	Wet.					
m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			45.0	43.0	.271	Rain	10	Northeast	0.13
55	2 07			45.0	43.0	.271	Cumulo-stratus	10	North	0.13
55	4 07			45.0	43.0	.271	Cumulo-stratus	10	North	0.06
on	6 07			46.5	44.0	.276	Cirro-stratus	5	North	0.13
55	8 07	64.0	86.0	51.0	48.5	.327	Cirro-stratus	5	North	0.13
55	10 07	66.0	70.0	57.5	51.0	.313	Cumuli	4	Northwest	0.26
55	Noon	78.0	87.0	60.7	54.0	.353	Cumuli	7	Northwest	0.52
55	14 07	82.0	94.0	63.8	54.2	.323	Cumuli	6	N. N. W.	0.34
55	16 07	76.0	81.0	64.5	53.0	.285	Cum. & cirrus	4	N. N. W.	0.40
55	18 07			62.5	53.0	.308	Cu. & cir.-cum.	3	N. W. by N.	0.18
55	20 07			53 7	48.0	.284	Clear	0	Northward	0.06
55	22 07			50.0	45.0	.257	Clear	0	Northwest	0.13

MAY 5, 1842.

55	0 07			50.5	45.0	.251	Clear	0	Northwest	0.20
55	2 07			47.2	42.0	.224	Clear	0	North	0.13
55	4 07			43.5	40.0	.224	Clear	0	Calm	0.00
on	6 07	*42.0	*42.0	*46.0	*48.0		Clear	0	Variable	0.06
55	8 07	75.0	84.0	55.0	51.0	.340	Clear	0	Variable	0.06
55	10 07	80.0	94.5	57.0	50.5	.306	Clear	0	W. S. W.	0.06
55	Noon	82.0	86.0	60.0	52.0	.309	Clear	0	Northwest	0.06
55	14 07	90.0	102.0	68.0	52.5	.276	Clear	0	Northwest	0.06
55	16 07	80.0	100.0	67.0	58.0	.386	Clear	0	Calm	0.00
55	18 07	80.0	92.0	68.0	56.5	.334	Clear	0	Calm	0.00
55	20 07			56.5	50.0	.299	Clear	0	Calm	0.00
55	22 07			51.0	46.8	.286	Clear	0	Calm	0.00

MAY 6, 1842.

55	0 55			46.0	42.5	.248	Clear	0	Calm	0.00
55	2 55			46.0	42.5	.248	Clear	0	Calm	0.00
55	4 55			43.0	40.0	.230	Clear	0	Calm	0.00
on	6 55			43.0	40.0	.230	Clear	0	Calm	0.00
55	8 55	56.0	58.0	56.0	55.0	.431	Clear	0	W. S. W.	0.06
55	10 55	88.0	100.0	61.0	56.0	.402	Clear	0	Southwest	0.06
55	Noon	88.0	100.0	68.0	58 0	.377	Clear	0	W. N. W.	0.13
55	14 55	90.0	102.0	72.5	59.0	.355	Clear	0	N. N. W.	0.13
55	16 55	84.0	100.0	74.5	63.0	.449	Clear	0	N. N. W.	0.13
55	18 55	76.0	84.0	72.5	63.0	.472	Clear	0	Calm	0.00
55	20 55			59 5	54.0	.366	Clear	0	Calm	0.00
55	22 55			56.0	50.5	.318	Clear	0	Calm	0.00

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* Error in recording observations.

METEOROLOGICAL OBSERVATIONS AT WASHINGTON

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
MAY 7, 1842.										
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
5 55	0 07			55.0	50.0	.317	Clear	0	Calm	0.00
7 55	2 07			50.5	48.0	.321	Clear	0	Northeast	0.13
9 55	4 07			51.0	47.0	.291	Clear	0	Calm	0.00
Noon	6 07			58.0	53.0	.357	Clear	0	North	0.13
13 55	8 07	70.0	74.0	60.0	57.0	.439	Clear	0	North	0.13
15 55	10 07	No ob	servatio	ns.						
17 55	Noon	No ob	servatio	ns.						
19 55	14 07	93.0	105.0	64.4	52.8	.279	Cirri	2	Variable	0.13
21 55	16 07	76.0	102.0	66.5	54.0	.286	Cirri	1	Calm	0.00
23 55	18 07	76.0	80.0	65.0	54.0	.293	Cirri	1	N. N. E.	0.06
1 55	20 07			54.0	48.0	.2*1	Cirri	1	Calm	0.00
3 55	22 07			49.5	44.0	.241	Clear	0	Calm	0.00
MAY 8, 1842.										
5 55	0 07			45.0	42.0	.249	Clear	0	Calm	0.00
7 55	2 07			45.0	42.0	.249	Clear	0	Calm	0.00
9 55	4 07			46.5	44.0	.276	Cumuli	9	Calm	0.00
Noon	6 07			50.5	48.5	.332	Cirro cumulus	9	W. S. W.	0.13
13 55	8 07			57 0	52.0	.344	Cirro-cumulus	9	W. S. W.	0.13
15 55	10 07	78.0	92.0	61.2	57.0	.426	Cumuli	8	Southwest	0.40
17 55	Noon	67.0	70.0	64.0	57 0	.395	Cumuli	9	S. S. W.	0.36
19 55	14 07	77.0	85.0	68.5	62.0	.486	Dense cumuli	10	Southwest	[illegible]
21 55	16 07			62.0	56.0	.391	Nimbus	10	Southwest	0.10
23 55	18 07			57.0	55.0	.420	Nimbus	10	Calm	0.10
1 55	20 07			52.5	51.0	.369	Nimbus	10	Airs	0 06
3 55	22 07			52.0	51.0	.375	Cumuli	10	Airs	0.06
MAY 9, 1842.										
5 55	0 07			51.0	50 0	.362	Cumuli	6	Northwest	0 13
7 55	2 07			50.0	49.0	.350	Cumuli	3	N. N. W.	0 13
9 55	4 07			49 0	47.0	.315	Cu. & Cu.-str.	8	Northwest	0.06
Noon	6 07	49.0	49.0	51.0	48.0	.315	Cumuli	6	N. N. W.	0 16
13 55	8 07	64.0	72.0	53.7	49.0	.308	Cumuli	3	Northwest	0 40
15 55	10 07			55.3	48.7	.2*3	Cumulo-stratus	6	N.W. by N.	0.26
17 55	Noon	72.0	84.0	54.7	46 3	.235	Cumuli	2	N.W. by N.	1.04
19 55	14 07	77.5	91.7	56.8	46.3	.211	Cumuli	2	N.W. by N.	[illegible]
21 55	16 07	78.2	97.0	59.7	49.5	.253	Cumuli	1	N.W. by N.	[illegible]
23 55	18 07	70.5	72.0	59 7	48.7	.234	Cirro stratus	2	N.W. by N.	[illegible]
1 55	20 07			53.4	47.0	.265	Cumulo-stratus	5	Calm	[illegible]
3 55	22 07			48.7	44.7	.266	Stratus	3	W. S. W.	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 10, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
5 55	0 07			46.0	42.2	.242	Cumulo-stratus	2	Airs	0.06
7 55	2 07			46.3	41.0	.278	Cumulo-stratus	10	Calm	0.00
9 55	4 07			46.8	44.0	.273	Stratus	9	S. W. by S.	0.06
Noon	6 07			47.5	44.2	.269	Cirro stratus	8	S. W. by S.	0.06
13 55	8 07	61.5	67.8	55.3	52.0	.363	Stratus	8	Southwest	0.26
15 55	10 07	72.0	80.0	63.5	58.0	.427	Stratus	10	Southwest	0.13
17 55	Noon	82.0	92.0	74.0	63.5	.470	Stratus	10	S. S. W.	0.13
19 55	14 07	84.0	92.0	75.5	64.0	.468	Stratus	10	Southwest	0.13
21 55	16 07	72.0	80.0	75.0	64.0	.464	Stratus	10	Southwest	0.13
23 55	18 07			70.0	60.0	.411	Stratus	10	Southwest	0.13
1 55	20 07			64.0	58 0	.422	Stratus	10	Southwest	0.13
3 55	22 07			60.5	55.0	.380	Stratus	10	Calm	0.00

MAY 11, 1842.

Göttingen.	Washington	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			59.0	54.0	.372	Stratus	10	S. S. W.	0.13
7 55	2 07			58.5	54.0	.378	Stratus	10	Southwest	0.13
9 55	4 07			57.5	54.0	.389	Stratus	8	S. S. W.	0.13
Noon	6 07			63.0	56.0	.380	Stratus	5	S. S. W.	0.13
13 55	8 07	70.0	72.0	69.0	63.0	.511	Stratus	10	Calm	0.00
15 55	10 07	86.0	97.0	71.5	66.0	.577	Stratus	8	Southwest	0.26
17 55	Noon	93.0	102.0	78.0	70.0	.639	Stratus	4	Southwest	0.26
19 55	14 07	97.0	106.0	83.0	76.0	.805	Cirro-cumulus	3	South	0.52
21 55	16 07	94.0	109.0	85.0	80.0	.947	Cirro-stratus	2	S. S. W.	0.52
23 55	18 07	94.0	98.0	86.0	78.0	.852	Cumuli	1	S. S. W.	0.26
1 55	20 07			75.0	71.0	.707	Clear	0	Calm	0.00
3 55	22 07			70.0	65.0	.562	Clear	0	Calm	0.00

MAY 12, 1842.

Göttingen.	Washington	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			69.0	64.0	.542	Clear	0	Calm	0.00
7 55	2 07			68.0	60.0	.433	Clear	0	Calm	0.00
9 55	4 07			61.0	58.0	.455	Clear	0	Northwest	0.13
Noon	6 07			60.0	55.0	.386	Stratus	4	Northwest	0.26
13 55	8 07	68.0	74.0	60.0	53.0	.336	Stratus	5	Northwest	0.52
15 55	10 07	78.0	88.0	61.0	52.5	.312	Stratus	6	Northwest	0.26
17 55	Noon	80.0	100.0	63.0	56.0	.380	Stratus	4	Northwest	0.13
19 55	14 07	88.0	104.0	68.0	56.0	.323	Stratus	4	Northwest	0.13
21 55	16 07	86.5	106.0	73.0	66.0	.560	Stratus	3	Northwest	0.06
23 55	18 07	80.0	82.0	72.5	60.5	.397	Clear	0	Calm	0.00
1 55	20 07			60.5	54.5	.368	Clear	0	Calm	0.00
3 55	22 07			57.0	52.0	.344	Clear	0	Calm	0.00

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 13, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lb.
5 55	0 07			51.5	48.0	.310	Clear	0	Calm	0.00
7 55	2 07			51.5	48.0	.310	Clear	0	Calm	0.00
9 55	4 07			52.0	48.5	.316	Cumuli	4	Calm	0.00
Noon	6 07			55.5	54.0	.411	Cirro-cumulus	9	Calm	0.00
13 55	8 07	68.0	74.0	64.5	62.0	.531	Cirro-cumulus	8	Southwest	0.13
15 55	10 07			68.0	63 0	.522	Cumulo-stratus	10	S. W. by S.	0.26
17 55	Noon	84.8	96.2	76.3	68.8	.616	Cumulo-stratus	8	S. S. W.	0.13
19 55	14 07			78.0	71.5	.680	Cumulo-stratus	10	S. W. by S.	0.06
21 55	16 07	86.0	94.0	77.0	73.3	.768	Cumulo-stratus	9	N. E. by N.	0.06
23 55	18 07			71.7	65.8	.569	Cumulo-stratus	9	W. N. W.	0.26
1 55	20 07			63.8	55.8	.365	Stratus	4	Northwest	0.52
3 55	22 07			57.0	49.2	.276	Stratus	6	N.W.by N.	0.52

MAY 14, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			53.2	46.7	.260	Clear	0	N. W by N.	0.06
7 55	2 07									
9 55	4 07			46.7	41.7	.224	Stratus	1	Calm	0.00
Noon	6 07	49.8	58.5	47.7	46.2	.311	Stratus	1	Calm	0.00
13 55	8 07	70.0	84.5	54.4	46.0	.230	Stratus	1	Northeast	0.26
15 55	10 07	80.0	100.0	58.0	49.0	.258	Stratus	0	N. N. E.	0.13
17 55	Noon	80 0	102.0	62.0	50.0	.236	Stratus	0	N. N. E.	0.13
19 55	14 07	78.0	90.0	67.5	58 0	.383	Stratus	0	N. N. E.	0.13
21 55	16 07	75.0	92.0	68.5	58.0	.371	Cirro-stratus	5	Northeast	0.13
23 55	18 07			65.0	58.0	.411	Cirro-stratus	5	South	0.13
1 55	20 07			56.0	48.0	.258	Cirro-stratus	8	Southeast	0.13
3 55	22 07			55.0	48.0	.269	Cirro-stratus	5	Southeast	0.13

MAY 15, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			53.0	47.0	.270	Cirro-stratus	2	Southwest	0.13
7 55	2 07			49.0	45.0	.268	Clear	0	South	0.06
9 55	4 07			48.0	46.0	.304	Cirro-stratus	5	South	0.06
Noon	6 07			52.0	50.0	.351	Cumulo-stratus	8	Airs	0.06
13 55	8 07			51.5	49.0	.333	Cumulo-stratus	10	Airs	0.06
15 55	10 07			52.0	50.5	.363	Rain	10	Calm	0.39
17 55	Noon			51.0	48.0	.315	Cirro-stratus	10	Northeast	0.06
19 55	14 07			55.0	50.0	.317	Cirro-stratus	10	Northeast	0.06
21 55	16 07			54.5	50.0	.323	Cirro-stratus	9	Calm	0.00
23 55	18 07			53.0	48.5	.305	Cirro-stratus	8	Calm	0.00
1 55	20 07			51.5	48.0	.310	Clear	0	Calm	0.00
3 55	22 07			48.0	44.0	.259	Clear	0	Calm	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 16, 1842.

solar time.	Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	°	°	°	°	*Inch.*		10th.		*Lbs.*
0 07			44.5	41.0	.235	Clear	0	Calm	0.00
2 07			46.0	43.0	.259	Clear	0	Calm	0.00
4 07			49.0	44.5	.259	Clear	0	S. S. W.	0.13
6 07			51.0	49.0	.339	Cumulo-stratus	5	Southwest	0.26
8 07	58.0	74.0	52.0	50.0	.351	Cumulo-stratus	5	Southwest	0.26
10 07	84.0	100.0	64.0	62.0	.537	Cumulo-stratus	7	Southwest	0.06
Noon	86.0	100.0	70.0	64.5	.545	Cumulo-stratus	4	Southwest	0.06
14 07	94.0	106.0	75.5	64.0	.468	Cumulo-stratus	2	Southwest	0.06
16 07	84.5	98.0	77.5	66.0	.509	Clear	0	Southwest	0.06
18 07	70.0	74.5	72.5	62.0	.441	Stratus	3	Southwest	0.06
20 07			64.0	58.0	.422	Clear	0	Southwest	0.06
22 07			64 0	64.0	.597	Clear	0	Southwest	0.06

MAY 17, 1842.

0 07			64.0	64.0	.597	Clear	0	Calm	0.00
2 07			64.0	63.0	.567	Clear	0	Calm	0.00
4 07			64.0	63.0	.567	Clear	0	Calm	0.00
6 07			64.0	63.0	.567	Clear	0	Calm	0.00
8 07	74.0	94.0	66.0	63.0	.544	Stratus	6	Calm	0.00
10 07	91.0	106.0	70.5	67.0	.620	Stratus	8	Southwest	0 06
Noon	94.0	106.5	76.0	70.0	.660	Stratus	9	Southwest	0.13
14 07	91 0	100.0	80.0	69.0	.581	Stratus	9	S. W. by S.	0.13
16 07	88.5	96.0	81.0	68.5	.552	Stratus	8	S. S. W.	0.06
18 07			74.5	64.0	.479	Cirro-stratus	6	S E. by S.	0.13
20 07			65.5	58.0	.405	Cirro-stratus	6	S. E. by S.	0.06
22 07			61.0	55.8	.396	Cirro-stratus	4	Airs	0.06

MAY 18, 1842.

0 07			57.8	53.8	.379	Cirro-stratus	5	Calm	0.0[illegible]
2 07			56.0	52.7	.371	Stratus	4	Airs	0.06
4 07			55.4	52.5	.374	Cumulo-stratus	6	Calm	0.00
6 07			57.0	55.0	.419	Cumulo-stratus	9	Airs	0.06
8 07	83.5	100.0	68.0	62.7	.513	Cumulo-stratus	8	S. W. by S.	0.06
10 07	74.5	80.0	71.5	67.0	.609	Stratus	9	Southwest	0.06
Noon	82.0	92.0	76.5	69.0	.620	Stratus	9	Southwest	0.06
14 07	80.0	91.5	78 5	70.0	.632	Cirro-stratus	7	S. S. W.	0.06
16 07	74.0	80.0	74.0	69.0	.648	Cumulo-stratus	8	S. S. W.	0.06
18 07			73.0	66.5	.575	Cumulo-stratus	10	Airs	0.06
20 07			65.0	60.0	.467	Cirro-stratus	8	Airs	0.06
22 07			62.0	58.0	.444	Cirro-stratus	2	Airs	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 19, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
5 55	0 07			60.0	56.0	.413	Clear	0	Airs	0.06
7 55	2 07			56.5	52.0	.349	Clear	0	Airs	0.06
9 55	4 07			58.0	56.0	.436	Clear	0	Airs	0.06
Noon	6 07	70.0	88.0	62.0	60.5	.515	Clear	0	Airs	0 06
13 55	8 07	82.0	100.0	70.0	64.0	.530	Clear	0	Airs	0.96
15 55	10 07	93.0	108.0	74.0	69.0	.648	Clear	0	S. S. W.	0.13
17 55	Noon	92.0	106.0	78.5	73.0	.739	Cumuli	2	S. S. W.	0.13
19 55	14 07	92.0	106.0	81.5	73.0	.706	Cumuli	2	S. S. W.	0.13
21 55	16 07	97.0	101.0	85 0	80.0	.946	Cirro-stratus	6	S. S. W.	0.13
23 55	18 07			80.0	75.0	.799	Cirro-stratus	9	Calm	0.00
1 55	20 07			75.0	70.0	.671	Cirro-stratus	10	Calm	0 00
3 55	22 07			70.0	66.0	.593	Cirro-stratus	10	N. N. E.	0.26

MAY 20, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			68.0	64.0	.552	Cirro-stratus	10	N. N. E.	1.04
7 55	2 07			65.0	61.0	.496	Cirro-stratus	10	Northeast	2 60
9 55	4 07			63.0	58.0	.433	Rain	10	Northeast	4.16
Noon	6 07			56.0	53.5	.393	Rain	10	Northeast	4.68
13 55	8 07			55.0	52.0	.368	Rain	10	Northeast	4.68
15 55	10 07			52.0	50.0	.350	Rain	10	Northeast	1.56
17 55	Noon			50.0	48.0	.326	Rain	10	Northeast	0.52
19 55	14 07			48.5	46.0	.298	Stratus	10	Northeast	0.52
21 55	16 07			47.0	44.0	.270	Stratus	10	Northeast	0.52
23 55	18 07			46.5	44.0	.276	Stratus	10	Northeast	0.26
1 55	20 07			45.5	44.0	.287	Stratus	10	Northeast	0.26
3 55	22 07			46.0	42.5	.248	Cirro-stratus	9	Northeast	0.26

MAY 21, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			45.0	42.5	.260	Rain	10	Northeast	0.26
7 55	2 07			45.0	42.0	.249	Stratus	10	Northeast	0.13
9 55	4 07			45 5	44.0	.287	Stratus	10	N. N. E.	0.13
Noon	6 07			46.0	44.0	.281	Stratus	10	N. N. E.	0.26
13.55	8 07			46.5	44.5	.286	Rain	10	Northeast	0.26
15 55	10 07			50.7	48.0	.318	Stratus	10	N. E. by N.	0.26
17 55	Noon			54.2	51.0	.350	Cumulo-stratus	10	Northeast	0.26
19 55	14 07			54.5	52.0	.372	Cumulo-stratus	10	E. N. E.	0.13
21 55	16 07			55.2	51.8	.358	Cumulo-stratus	10	Variable	0.06
23 55	18 07			53.4	50.5	.347	Cumulo-stratus	10	Calm	0.00
1 55	20 07			52.0	50.0	.350	Stratus	10	Calm	0.00
3 55	22 07			51.5	50.0	.356	Cumulo-stratus	10	Calm	0.00

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 22, 1842.

solar time.	Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
0 07			51.0	49.0	.338	Cumulo-stratus	10	Airs	0.06
2 07			51.0	49.0	.338	Stratus	10	South	0.13
4 07			51.5	50.0	.356	Stratus	10	South	0.13
6 07			53.0	52.0	.389	Cumulo-stratus	10	S. S. W.	0 13
8 07			57.3	56.0	.443	Cumulo-stratus	10	Southwest	0 26
10 07			60.0	57.5	.453	Cumulo-stratus	10	Southwest	0.26
Noon			61.5	59.0	.478	Rain	10	Southwest	0.26
14 07			63.0	60.5	.504	Cumulo-stratus	10	S. S. W.	0.13
16 07	78.0	82.0	71.5	66.5	.592	Cirro-stratus	8	S. S. W.	0.06
18 07			68.0	64.0	.552	Cirro stratus	5	S. S. W.	0.06
20 07			62 0	60.0	.501	Cirro-stratus	8	Southwest	0.13
22 07			60.5	58.0	.461	Cumuli	10	Southwest	0.06

MAY 23, 1842.

0 07			60.5	58.0	.461	Cumulo-stratus	8	Airs	0.06
2 07			59.0	56.5	.437	Cumuli	5	Southwest	0.18
4 07			61.0	59.0	.484	Cirro stratus	7	Northwest	0.13
6 07	70 0	80.0	65.0	62.0	.525	Cirro-stratus	5	Northwest	0.13
8 07	80 0	100.0	69.5	62 0	.475	Cirro stratus	5	Northwest	0.26
10 07	82.0	98.0	68 0	60.0	.501	Cirro stratus	2	N. N. W.	0.52
Noon	85.0	98.0	71.0	66 0	.582	Cumulo stratus	7	N. N. W.	0 26
14 07	92.0	104.0	70 5	66.0	.588	Cumulo-stratus	8	W. N. W.	0.26
16 07	92.0	101.0	74.5	67.0	.586	Cumuli	2	N. N. W.	0.18
18 07	81.0	88.0	72.0	68.0	.636	Cumuli	2	N. N. W.	0.18
20 07			63.0	61.0	.519	Cirro-stratus	6	N. N. W.	0 06
22 07			59.0	54.0	.372	Cirri	8	N. N. W.	0.06

MAY 24, 1842.

0 07			57.5	54 0	.389	Cirri	9	Calm	0.00
2 07			56.0	52 0	.355	Cirri	8	Calm	0.00
4 07			58.0	56.0	.436	Cirri	8	Calm	0.00
6 07			61.0	60.0	.512	Cirri	9	S. S. W.	0.06
8 07	78.0	79.0	65.0	63.0	.556	Cirri	8	S. S. W.	0.06
10 07			70.0	64.0	.530	Rain	10	Variable	0.06
Noon			69.5	64 0	.535	Cirro stratus	10	Northeast	0.13
14 07			70.5	66 5	.603	Cirro stratus	10	Southeast	0.18
16 07			70.5	66.0	.588	Cirro-stratus	10	Southeast	0 06
18 07			67.5	64.0	.558	Stratus	10	Calm	0.00
20 07			65.0	62.0	.525	Rain	10	Southeast	0.06
22 07			64.0	62.0	.537	Stratus	10	Calm	0.00

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
MAY 25, 1842.										
5 55	0 07			63.5	62.0	.542	Stratus	10	Calm	0.0
7 55	2 07			63.0	61.0	.519	Stratus	10	Calm	0.0
9 55	4 07			60.5	56.5	.420	Cirri	7	Northwest	0.13
Noon	6 07			59.5	54.5	.379	Cirri	6	Northwest	0.26
13 55	8 07	68.0	74.0	62.5	58 0	.439	Cirro-stratus	6	Northwest	0.26
15 55	10 07	90.0	102.0	66.0	59.0	.428	Cirro-stratus	7	N. N. W.	0.13
17 55	Noon	85.0	94.0	70.5	61.0	.435	Cirro-stratus	5	N. N. W.	0.13
19 55	14 07	87.0	94.0	72 8	60.0	.379	Cirro-stratus	7	Northwest	0.13
21 55	16 07	88.5	100.8	74.5	62.0	.415	Clear	0	Northwest	0.13
23 55	18 07	78.0	88.0	75.0	63.0	.443	Clear	0	Northwest	0.0
1 55	20 07			63.5	56.0	.374	Clear	0	Northwest	0.0
3 55	22 07			57.0	52.0	.344	Cirro-stratus	7	Southwest	0.0
MAY 26, 1842.										
5 55	0 07			56.0	51.0	.330	Clear	0	Calm	0.0
7 55	2 07			53.0	48.5	.305	Clear	0	Northeast	0.0
9 55	4 07			51 0	48.0	.315	Cirro-stratus	5	Calm	0.0
Noon	6 07			55.5	54.0	.411	Cumulo-stratus	7	Calm	0.0
13 55	8 07	70.0	72.0	64.0	62.0	.537	Cumulo-stratus	9	Calm	0 0
15 55	10 07	94.0	104.0	74.0	68.0	.614	Cirri	8	S. S. E.	0 0
17 55	Noon	94 0	108.0	75.5	69.0	.631	Cumuli	9	S. S. W.	0 0
19 55	14 07	78.0	82.0	78.0	70.0	.637	Cumuli	9	S. S. W.	0.0
21 55	16 07	84.0	90.0	80.0	72.0	.687	Cirri	9	S. S. W.	0
23 55	18 07			73.0	66.0	.560	Cirro-stratus	10	S. S. W.	0.
1 55	20 07			67.0	63.0	.533	Rain	10	S. S. E.	0
3 55	22 07			60.0	57.0	.439	Rain	10	South	0
MAY 27, 1842.										
5 55	0 07			59.0	54.0	.372	Cirro-stratus	10	Calm	0
7 55	2 07			58.5	54.0	.378	Cirro-stratus	10	Calm	0.
9 55	4 07			61.5	60.0	.506	Stratus	10	Calm	0 0
Noon	6 07			64.0	61.0	.507	Stratus	10	Calm	0.
13 55	8 07			66.0	63.0	.544	Stratus	10	Calm	0
15 55	10 07			71.5	68.0	.642	Stratus	10	Calm	0
17 55	Noon	84.5	92.0	78.0	72.0	.709	Stratus	9	Calm	[illegible]
19 55	14 07	82.0	88.0	80.5	74.0	.755	Cumulo-stratus	9	W. S. W.	[illegible]
21 55	16 07			80.2	73.0	.722	Cumulo-stratus	10	Southwest	0.26
23 55	18 07	80.0	88.0	77.5	70.0	.644	Cumulo-stratus	8	Southwest	0.26
1 55	20 07			70.5	64.5	.540	Clear	0	Calm	0.0
3 55	22 07			67.5	64.0	.558	Clear	0	Calm	0.0

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 28, 1842.

ean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
. m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			64.5	60.5	.487	Cirri	1	Calm	0.00
55	2 07			63.0	60.0	.489	Clear	0	Calm	0.00
55	4 07			60.5	56.5	.420	Cirri	2	Calm	0.00
oon	6 07	72.0	80.0	60.5	56.5	.420	Cirri	2	Calm	0.00
55	8 07	90.0	100.0	71.5	68.5	.658	Cirri	2	Calm	0.00
55	10 07	96.0	112 0	71.5	65.0	.544	Clear	0	Northeast	0.06
55	Noon	95.0	108.0	75.0	69.0	.637	Clear	0	Northeast	0.06
55	14 07	99.0	112.0	76.8	66.0	.517	Cirro-stratus	1	Calm	0.00
55	16 07	102.8	112.2	81.9	70.8	.622	Cumuli	3	N. by W.	0.13
55	18 07	78.0	82.0	80.5	70.0	.612	Cirri	5	West	0.06
55	20 07			71.5	64.0	.513	Cumulo-stratus	8	Southwest	0.13
55	22 07			68.0	62.0	.492	Cumulo-stratus	10	West	0.06

MAY 29, 1842.

55	0 07			66.5	62.0	.509	Cumulo-stratus	5	Southwest	0.13
55	2 07			65.0	61.0	.496	Cumulo stratus	10	S. S. W.	0.13
55	4 07			63.0	60.0	.489	Cirro-stratus	2	Calm	0.00
oon	6 07	72.0	80.0	66.5	64.0	.569	Cirri	2	Calm	0.00
55	8 07	94.0	106.0	77.0	71.0	.685	Cirro-stratus	5	Southwest	0.06
55	10 07	94.0	108.0	79.5	73.0	.729	Cumuli	5	Southwest	0.06
55	Noon	93.0	103.0	82.0	76.0	.816	Cumuli	6	Southwest	0.26
55	14 07	102.0	114.8	85.5	77.0	.816	Cumulo-stratus	4	Southwest	0.26
55	16 07			78.0	71.0	.674	Rain	10	Southwest	4.16
55	18 07			72.0	68.0	.637	Cirro-stratus	10	Southwest	0.06
55	20 07			68.5	66.0	.611	Cirro-stratus	10	Calm	0.00
55	22 07			67.0	65.0	.595	Cirro-stratus	10	Calm	0.00

MAY 30, 1842.

55	0 07			67.5	64.0	.558	Rain	10	S. S. W.	0.26
55	2 07			67.0	64.0	.564	Cirro-stratus	10	S. S. W.	0.13
55	4 07			69.5	66.5	.615	Cirro stratus	7	Southwest	0.13
oon	6 07			72.0	70.0	.705	Cirro-cumulus	5	West	0.13
55	8 07			75.0	72.0	.742	Cumuli	1	West	0.13
55	10 07	92.0	100.0	76.5	66.5	.538	Cumuli	5	N. W. by W.	0.26
55	Noon	88.0	98.0	77.0	68.0	.582	Cumuli	5	N. W. by W.	0.26
55	14 07	86.0	96.0	79.0	66.5	.510	Cumuli	4	W. N. W.	0.26
55	16 07	96.0	108.0	78.5	64.0	.437	Cumulo-stratus	8	W. N. W.	0.26
55	18 07	80.0	86.0	75.0	66.5	.554	Cumulo-stratus	2	W. N. W.	0.26
55	20 07			66.5	58.0	.394	Clear	0	Calm	0.00
55	22 07			63.0	54.5	.340	Clear	0	W. N. W.	0.13

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

MAY 31, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*	
5 55	0 07			60.0	52.5	.323	Clear	0	Northwest
7 55	2 07			57.5	52.0	.338	Cirri	1	Northwest
9 55	4 07			57.5	50.5	.302	Cumuli	9	Northwest
Noon	6 07			57.5	52.0	.338	Cumuli	9	Northwest
13 55	8 07	80.0	96.0	63.0	60.0	.489	Clear	0	Northwest
15 55	10 07	86.0	100.0	64.0	54.0	.316	Cirri	1	N. N. W.
17 55	Noon	82.0	94.0	66.5	56.0	.340	Cirro-stratus	4	N. by W.
19 55	14 07	87.0	96.0	68.5	56.5	.330	Cirro-stratus	2	N. by W.
21 55	16 07	76.0	89.0	71.5	58.0	.338	Cirri	1	N. by W.
23 55	18 07	79.0	88.0	71.0	64.0	.519	Cirri	1	Northerly
1 55	20 07			60.0	54.0	.361	Clear	0	Northerly
3 55	22 07			56.0	50.5	.318	Clear	0	Northerly

JUNE 1, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			53.0	50.0	.339	Clear	0	West
7 55	2 07			51.5	46.0	.264	Clear	0	West
9 55	4 07			52.5	47.0	.275	Clear	0	Westerly
Noon	6 07	68.0	82.0	60.0	51.0	.285	Clear	0	Westerly
13 55	8 07	80.0	100.0	65.0	58.0	.411	Clear	0	Westerly
15 55	10 07	90.0	106.0	68.0	56.0	.323	Clear	0	N. N. W.
17 55	Noon	87.0	101.0	70.0	58.0	.354	Clear	0	West
19 55	14 07	96.0	110.0	72.0	66.0	.571	Clear	0	West
21 55	16 07	98.0	110.0	74.0	68.0	.614	Clear	0	Calm
23 55	18 07	77.0	83.0	73.0	68.0	.625	Clear	0	Calm
1 55	20 07			63.0	57.0	.406	Clear	0	Calm
3 55	22 07			56.0	51.0	.330	Clear	0	Calm

JUNE 2, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
5 55	0 07			53.0	49.0	.315	Clear	0	Calm
7 55	2 07			51.5	48.0	.309	Clear	0	Calm
9 55	4 07			49.0	46.0	.292	Clear	0	Calm
Noon	6 07	67.0	73 0	56.0	52.0	.355	Clear	0	Calm
13 55	8 07	81.0	100.0	64.0	59.0	.449	Clear	0	Calm
15 55	10 07	92.5	110.0	68.5	60.5	.442	Cumuli	4	W. S. W.
17 55	Noon	90.0	102.5	72.0	62.5	.462	Cumuli	2	Southeast
19 55	14 07	92.0	104.0	73.0	62.0	.436	Cumuli	2	Southeast
21 55	16 07	92.0	104.0	75.5	64.0	.468	Cumuli	1	Southeast
23 55	18 07	72.5	78.0	74.0	62.5	.439	Cumuli	1	Southeast
1 55	20 07			64.5	54.5	.323	Clear	0	Southeast
3 55	22 07			59.5	52.0	.315	Clear	0	Southeast

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 3, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
5 55	0 07			54.0	52.0	.377	Clear	0	Southeast	0.06
7 55	2 07			52.0	50.0	.350	Clear	0	Southeast	0.06
9 55	4 07			48.5	44.6	.266	Clear	0	Calm	0.00
Noon	6 07	68.0	76.0	56 5	56.0	.452	Clear	0	Calm	0.00
13 55	8 07	84.0	96.0	65.0	60.0	.466	Cumuli	2	Calm	0.00
15 55	10 07	88.0	104.0	67.5	60.0	.438	Cumuli	3	E. by S.	0.06
17 55	Noon	88 0	99.0	69.0	63.0	.510	Cumuli	3	E. by S.	0.06
19 55	14 07	95.0	107.0	74.5	65.0	.509	Cumuli	3	Southwest	0.06
21 55	16 07	93.0	104.0	77.5	68.0	.573	Cumuli	3	Southwest	0.06
23 55	18 07	*72.0	*75.0	76.0	66.0	.526	Cirro-stratus	5	N. by E.	0.06
1 55	20 07			66.0	60.0	.456	Cirro stratus	8	N. by E.	0.06
3 55	22 07			65.0	60.0	.457	Cumulo-stratus	8	N. by E.	0.06

JUNE 4, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			64.0	60.0	.478	Cumulo-stratus	10	N. N. E.	0.06
7 55	2 07			63.5	60.0	.484	Cumulo-stratus	10	N. N. E.	0.06
9 55	4 07			62 5	59.0	.467	Cumulo-stratus	8	N. N. E.	0.06
Noon	6 07			64.0	61.0	.507	Cumuli	10	Variable	0.06
13 55	8 07			65 5	64.0	.580	Cirro-stratus	10	Southeast	0.06
15 55	10 07			69.0	66.0	.604	Cumuli	10	S. S. E.	0.06
17 55	Noon	83.0	93.0	73.8	71.0	.720	Cumulo-stratus	8	Southeast	0.13
19 55	14 07	90.0	100.0	77.8	72.0	.711	Cirro-stratus	8	Southeast	0.13
21 55	16 07	98.0	110.0	83.8	76.0	.796	Cirro-stratus	5	Southwest	0.13
23 55	18 07	78.0	80.0	79.5	70.0	.622	Cirro-stratus	5	Southwest	0.06
1 55	20 07			71.8	66.0	.573	Cumulo-stratus	7	S. S. W.	0.06
3 55	22 07			68.5	64.0	.547	Cumulo-stratus	2	Airs	0.06

JUNE 5, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			65.0	60.8	.490	Clear	0	Southwest	0.06
7 55	2 07			65.0	60.8	.490	Clear	0	Southwest	0.06
9 55	4 07			65.0	63.0	.556	Cumuli	10	Calm	0.00
Noon	6 07			65 0	64.0	.586	Cumulo-stratus	8	Calm	0.00
13 55	8 07	89.0	106.0	72.0	70.0	.705	Cirro stratus	2	Calm	0.00
15 55	10 07	94.0	106.0	78.2	72.2	.715	Cirro-stratus	3	Calm	0.00
17 55	Noon	96.0	108.0	81.0	73.0	.713	Cumulo-stratus	3	Southwest	0.13
19 55	14 07	97.0	111.0	83.5	75.0	.760	Cumulo-stratus	3	Southwest	0.18
21 55	16 07	101.0	112.5	85.0	77.0	.822	Cirro-stratus	5	Southwest	0.06
23 55	18 07		88.0	85.5	78.0	.857	Cumuli	4	Southwest	0.06
1 55	20 07			76.0	70.0	.661	Cirro-stratus	5	Calm	0.00
3 55	22 07			73.0	68.0	.626	Cirro-stratus	3	Calm	0.00

* Probably an error in the record.

JUNE 6, 1842.

Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Sun.	Rad.	Dry.	Wet.					
°	°	°	°	*Inch.*		10*th.*		*Lbs.*
		70.0	63.0	.500	Cirro-stratus	4	Calm	0.00
		68.0	64.0	.552	Cirro-stratus	4	Calm	0.00
		67.0	64.5	.579	Stratus	6	Northwest	0.13
		69.0	65.0	.572	Stratus	7	North	0.13
77.0	84.0	71.0	66.0	.582	Stratus	9	N. N. E.	0.26
82.0	92.0	73.5	64.5	.506	Stratus	9	Northwest	0.13
88.5	100.0	77.0	68.5	.597	Stratus	9	Northwest	0.13
94.5	108.0	75.5	64.2	.474	Cirro-stratus	7	N. N. W.	0.13
92.5	108.0	79.5	64.0	.423	Cirri	8	North	0.06
84.0	92.0	78.5	64.0	.435	Cirro-cumulus	7	North	0.06
		70.0	62.0	.469	Cumuli	3	N. N. E.	0.06
		65.0	56.5	.370	Cumuli	2	N. N. E.	0.13

JUNE 7, 1842.

Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
		60.0	52.0	.309	Cumuli	1	N. N. E.	0.26
		60.0	52.0	.309	Cumuli	2	N. N. E.	0.26
		55.0	50.0	.316	Cumuli	3	N. N. E.	0.26
58.0	66.0	55.0	50.0	.316	Cumuli	4	N. N. E.	0.26
72.0	82.0	57.0	54.0	.384	Cirri	5	E. N. E.	0.13
72.0	94.0	60.0	53.0	.334	Cirri	2	E. N. E.	0.13
79.0	93.0	64.0	55.0	.339	Cirri	3	N. N. E.	0.13
84.0	104.0	66.0	57.0	.370	Cirri	4	N. N. E.	0.13
86.0	99.0	72.0	61.0	.416	Cirri	5	N. N. E.	0.13
70.0	78.0	68.0	61.0	.461	Cirri	4	N. N. E.	0.13
		64.0	61.0	.507	Cirri	5	N. N. E.	0.13
		56.5	51.0	.323	Cirri	8	E. N. E.	0.13

JUNE 8, 1842.

Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
		54.5	50.0	.322	Cumuli	8	E. N. E.	0.40
		54.0	51.0	.352	Cumuli	9	E. N. E.	0.13
		54.0	51.0	.352	Stratus	6	N. N. E.	0.13
		56.0	52 0	.354	Stratus	5	N. N. E.	0.13
		57.0	53.0	.368	Stratus	9	N. N. E.	0.13
		61.5	58.0	.449	Cumulo-stratus	10	N. N. E.	0.13
		65.5	61.0	.490	Rain	10	Northeast	0.13
		66.5	63.0	.538	Rain	10	Northeast	0.13
		67.0	62.0	.502	Rain	10	N. N. E.	0.13
		65.0	60.0	.466	Rain	10	N. N. E.	0.13
		63.0	59.0	.461	Rain	10	Northeast	0.13
		63.0	59.0	.461	Rain	10	Northeast	0.13

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 9, 1842.

lar time.	Thermometers.								
Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
h. m.	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
0 07			63.0	61.0	.519	Cumuli	10	Southwest	0.06
2 07			63.0	61.0	.519	Rain	10	S. S. W.	0.13
4 07			63 0	61.0	.519	Rain	10	S. S. W.	0.06
6 07			63.5	61.0	.513	Cumulo-stratus	10	S. S. W.	0.06
8 07			66.0	64 0	.575	Cumulo-stratus	8	S. S. W.	0.06
10 07			73.0	68.0	.625	Cirro-stratus	10	Calm	0.00
Noon			76.0	71.0	.695	Stratus	10	Calm	0.00
14 07	95.0	107.0	82.0	74.5	.757	Stratus	6	W. S. W.	0.06
16 07	90.0	100.0	81.6	74.2	.751	Cumulo-stratus	7	Southwest	0.13
18 07			79.5	74.2	.774	Cumulo-stratus	4	Calm	0.00
20 07			71.0	67.0	.614	Cumulo-stratus	3	Calm	0.00
22 07			70.0	67.0	.625	Cumulo-stratus	7	Calm	0.00

JUNE 10, 1842.

0 07			70.0	67.0	.625	Stratus	10	Calm	0.60
2 07			70.0	68.0	.659	Stratus	10	Calm	0.00
4 07			66.0	64.0	.575	Cumulo-stratus	9	Calm	0.00
6 07			66.0	64.2	.581	Cumulo-stratus	8	Calm	0.00
8 07	92.0	100.0	75.5	74.0	.811	Cirro-stratus	4	Northwest	0.06
10 07	92.5	104.2	75.5	68.0	.598	Cumuli	3	W. N. W.	0.13
Noon	90.5	102.5	76 5	66.0	.522	Cumuli	3	Northwest	0.26
14 07	94.2	112.0	78.5	64.0	.547	Cumuli	3	Northwest	0.26
16 07	94.0	116.0	80.0	64.2	.536	Cumuli	5	West	0.26
18 07	80.0	98.6	75.6			Cumuli	3	Northwest	0.26
20 07			67.2			Cumuli	2	Northwest	0.26
22 07			61.5	54.0	.344	Clear	0	Northwest	0.13

JUNE 11, 1842.

0 07			59.0	54.0	.372	Cumuli	4	Northwest	0.13
2 07			58.0	52.5	.345	Cumuli	4	Northwest	0.26
4 07			54.5	50.0	.323	Cumulo-stratus	8	Northwest	0.52
6 07	60.0	68.0	54.5	52.5	.385	Cumulo stratus	5	Northwest	0.52
8 07	70.0	82.0	56.0	52.0	.355	Cumuli	4	Northwest	0.52
10 07	76.0	90.0	55.5	50.0	.310	Cirro-stratus	2	N. N. W.	0.52
Noon	76.0	90.0	57.0	50.0	.293	Clear	0	N. N. W.	2.60
14 07	82.0	90.0	61.5	53.0	.317	Clear	0	Northwest	2.60
16 07	84.0	96.0	63.0	55.0	.352	Clear	0	Northwest	0.26
18 07	85.0	96.0	66.0	60.0	.456	Clear	0	Northwest	0.13
20 07			61.5	52.0	.292	Clear	0	Northwest	0.13
22 07			53.0	50.0	.339	Clear	0	Airs	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 12, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	h. m.	°	°	°	°	Inch.		10th.	
5 55	0 07			59 5	53.0	.340	Clear	0	Airs
7 55	2 07			48 0	46.0	.303	Clear	0	N. N. W
9 55	4 07			45.0	44.0	.298	Clear	0	Airs
Noon	6 07	70.5	82 5	45.0	44.0	.293	Clear	0	Airs
13 55	8 07	78.0	94.0	60.0	58.0	.466	Clear	0	Airs
15 55	10 07	87.0	103.0	65.0	60.0	.466	Clear	0	W. S. W
17 55	Noon	84.0	98.0	68.0	62 0	.482	Clear	0	W. S. W
19 55	14 07	92.0	105.0	72.5	63.5	.487	Clear	0	W. S. W
21 55	16 07	95.0	107.0	73.5	69.0	.654	Clear	0	Southwes
23 55	18 07	85.0	93.0	74 0	67.0	.581	Clear	0	Southwes
1 55	20 07			67.0	58.0	.338	Clear	0	S. by W
3 55	22 07			62.0	56.0	·391	Clear	0	S. by W

JUNE 13, 1842.

5 55	0 07			60.0	56.0	.413	Clear	0	Southwes
7 55	2 07			60.5	58.0	.461	Clear	0	Southwes
9 55	4 07			60.5	58.0	.461	Clear	0	S. S. W.
Noon	6 07	65.0	66.0	62.5	62.0	.553	Cumuli	0	Southwes
13 55	8 07	86.0	94.0	70.5	70.0	.721	Cumuli	0	Southwes
15 55	10 07	86.0	101.0	77.0	71.0	.684	Cirro-cumulus	6	S. S. W.
17 55	Noon	96.0	104.0	80.0	73.0	.723	Cirro-cumulus	5	Southwes
19 55	14 07	96.0	108.0	85.5	78.0	.857	Cirro-cumulus	5	Southwes
21 55	16 07	100.0	104.0	87.0	80.0	.924	Cirro-cumulus	8	Southwes
23 55	18 07			73.0	68.0	.625	Cirro-stratus	10	Calm
1 55	20 07			68.0	65.0	.583	Rain	10	Calm
3 55	22 07			67.0	64.5	.579	Cirro-stratus	10	Calm

JUNE 14, 1842.

5 55	0 07			66.0	62.0	.514	Stratus	10	Calm
7 55	2 07			65.0	63.0	.556	Stratus	10	Calm
9 55	4 07			64.0	61.0	.507	Stratus	10	Calm
Noon	6 07			65.0	62.0	.525	Stratus	10	N. N. E
13 55	8 07	72.0	78.0	66.5	64.5	.585	Light stratus	10	N. N. E
15 55	10 07	80.0	90.0	73.0	68.5	.642	Light stratus	10	E. N. E
17 55	Noon	90.0	102.0	77.5	70 0	.643	Light stratus	10	E. N. E
19 55	14 07	84.0	96.0	78.5	72.0	.702	Light stratus	10	East
21 55	16 07			75.5	70.0	.665	Light stratus	10	East
23 55	18 07			71.5	68.0	.642	Light stratus	10	Calm
1 55	20 07			68.0	64.5	.568	Cirro-cumulus	3	Calm
3 55	22 07			66.0	64.0	.575	Cirri	7	Calm

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 15, 1842.

r time.	Thermometers.								
Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
h. m.	°	°	°	°	Inch.		10th.		Lbs.
0 07			66.0	64.0	.575	Stratus	10	Calm	0.00
2 07			66.0	64.0	.575	Stratus	10	Calm	0.00
4 07			65.5	64.0	.580	Stratus	10	East	0.06
6 07			67.0	66.0	.627	Rain	10	East	0.13
8 07			67.5	66.0	.621	Rain	10	East	0.18
10 07			71.5	70.0	.710	Cumuli	10	E. by N.	0.13
Noon			75.5	72.0	.726	Cumulo-stratus	10	E. N. E.	0.26
14 07	81.0	90.0	78.5	73.0	.740	Cumulo-stratus	9	E. N. E.	0.18
16 07			77.5	73.5	.757	Cumuli	10	Northeast	0.18
18 07			77.5	74.0	.788	Cumuli	10	Northeast	0.06
20 07			72.0	72.0	.775	Cirro stratus	8	Northeast	0.06
22 07			67.0	64.0	.563	Cirro-stratus	5	Northeast	0.06

JUNE 16, 1842.

0 07			67.0	64.0	.563	Cirro-stratus	5	Calm	0.00
2 07			66.0	64.0	.575	Cumuli	5	Calm	0.00
4 07			67.0	66.0	.627	Cumuli	10	Calm	0.00
6 07			72.0	70.0	.705	Cumulo-stratus	8	Calm	0.00
8 07			74.0	72.0	.753	Cumulo stratus	8	Calm	0.00
10 07	97.0	111.0	84.0	80.0	.957	Cumuli	8	W. S. W.	0.13
Noon	101.0	111.0	88.0	80.0	.913	Cumuli	8	W. S. W.	0.13
14 07			86.0	80.0	.935	Rain	10	W. by S.	0.13
16 07			74.5	69.0	.642	Rain	10	N. by E.	0.26
18 07	71.0	73.0	71.0	70.0	.716	Cumuli	8	S. S. E.	0.13
20 07			70.5	68.0	.653	Cumuli	8	S. S. E.	0.13
22 07			69.0	68.5	.686	Cumuli	8	Airs	Airs

JUNE 17, 1842.

0 07			69.0	67.0	.637	Cumuli	9	Airs	0.06
2 07			68.5	66.0	.610	Cumuli	9	Calm	0.00
4 07			69.0	68.0	.670	Cumuli	9	S. S. E.	0.13
6 07			70.0	69.0	.693	Cumulo stratus	8	Airs	0.06
8 07	73.0	74.0	72.5	72.0	.770	Cumulo-stratus	8	S. S. E.	0.13
10 07			71.0	69.0	.682	Rain	10	Airs	0.06
Noon		82.0	75.0	73.6	.801	Cumulo-stratus	10	Airs	0.06
14 07		90.0	80.0	76.0	.838	Cumulo-stratus	10	Calm	0.00
16 07			77.5	74.0	.788	Rain	10	Calm	0.00
18 07			73.5	70.0	.688	Cirro-stratus	10	Southwest	0.06
20 07			71.0	69.0	.682	Cirro-stratus	10	Calm	0.00
22 07			70.0	68.0	.559	Cirro-stratus	10	Calm	0.00

JUNE 18, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	h. m.	°	°	°	°	Inch.		10th.	
5 55	0 07			69.0	67.0	.637	Stratus	10	Calm
7 55	2 07			69.2	67.0	.634	Stratus	10	Calm
9 55	4 07			72.0	70.0	.705	Stratus	10	Calm
Noon	6 07			74.0	71.0	.718	Rain	10	Southeast
13 55	8 07			75.0	73.5	.798	Stratus	10	Southeast
15 55	10 07			81.2	76.5	.844	Rain	9	Southwest
17 55	Noon	96.0	110.0	84.0	80.0	.957	Stratus	9	Southwest
19 55	14 07	94.0	104.2	86.0	78.0	.852	Cirro-cumulus	8	Southeast
21 55	16 07	98.0	114.0	87.2	80.0	.922	Cirro-cumulus	7	Southwest
23 55	18 07			84.0	76.0	.794	Cirro-cumulus	9	S. E.
1 55	20 07			75.0	70.0	.672	Cirri	4	Calm
3 55	22 07			74.0	70.0	.683	Cirri	3	Calm
JUNE 19, 1842.									
5 55	0 07			74.0	70.0	.683	Cirri	3	Calm
7 55	2 07			74.0	70.0	.683	Cirri	5	Calm
9 55	4 07			70.0	68.0	.659	Cirro-stratus	10	Calm
Noon	6 07			71.0	70.0	.716	Stratus	10	Calm
13 55	8 07			75.0	74.0	.816	Stratus	10	Calm
15 55	10 07	88.0	96.0	81.8	78.0	.898	Cirro-stratus	9	S. S. W.
17 55	Noon	98.0	100.0	87.5	80.0	.918	Cirri	8	S. S. W.
19 55	14 07	90.0	98.0	87.5	79.5	.898	Cumulo-stratus	8	S. S. W.
21 55	16 07			88.0	80.0	.913	Cumuli	8	Southwest
23 55	18 07			70.0	68.0	.659	Rain	10	Southwest
1 55	20 07			71.0	69.0	.682	Cumuli	10	Southwest
3 55	22 07			71.0	69.0	.682	Cirro-stratus	8	Southwest
JUNE 20, 1842.									
5 55	0 07			71.0	70.0	.716	Cirro-stratus	8	Southwest
7 55	2 07			70.0	69.0	.693	Cumulo-stratus	10	Southwest
9 55	4 07			70.0	69.0	.693	Cumulo-stratus	8	Airs
Noon	6 07			70.0	69.0	.693	Rain	10	Airs
13 55	8 07			70.0	68.0	.659	Rain	10	Northeast
15 55	10 07			72.0	67.0	.603	Rain	10	Northeast
17 55	Noon	82.0	88.0	74.5	71.0	.712	Rain	8	Northeast
19 55	14 07	78.0	83.0	75.5	71.0	.701	Cumulo-stratus	8	Northeast
21 55	16 07	79.0	83.0	77.0	73.0	.757	Cumulo-stratus	8	Northeast
23 55	18 07	81.0	92.0	77.0	71.0	.684	Cumuli	6	Northeast
1 55	20 07			78.5	69.0	.654	Cumuli	4	Northeast
3 55	22 07			70.0	68.0	.659	Cumuli	8	Northeast

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 21, 1842.

solar time.		Thermometers.								
	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			70.0	68.0	.659	Cumuli	8	Airs	0 06
55	2 07			70.0	67 0	.625	Cumuli	9	Airs .	0.06
55	4 07			69.0	67.0	.637	Cumuli	9	Airs	0.06
on	6 07	69.0	71.0	70.0	67.0	.625	Cumuli	8	N. N. E.	0.13
55	8 07	87.0	97.0	74.5	71.0	.712	Cumuli	2	N N. E.	0.26
55	10 07	96.0	114.0	76.0	69.0	.637	Clear	0	North	0.26
55	Noon	97.0	110.0	77.5	70.5	.661	Clear	0	Calm	0.00
55	14 07	102.0	116.0	80.0	73 0	.723	Cumuli	3	North	0.06
55	16 07	104.0	123.0	83.0	75.0	.764	Cumuli	2	Calm	0.00
55	18 07			81.0	74.5	.767	Stratus	1	Calm	0.00
55	20 07			80 0	74.0	.760	Stratus	1	Calm	0.00
55	22 07			72.0	68.0	.636	Stratus	1	Calm	0.00

JUNE 22, 1842.

55	0 07			70 0	68.0	.659	Clear	0	Calm	0.00
55	2 07			70.0	69 0	.693	Stratus	2	Calm	0.00
55	4 07			72.0	71.0	.740	Stratus	5	West	0 06
oon	6 07			73 0	72 0	.764	Stratus	10	West	0.06
55	8 07	90.0	100.0	77.5	75 0	.827	Stratus	4	Calm	0.00
55	10 07	102.5	114.5	81.0	72.6	.697	Cumuli	2	Northwest	0.06
55	Noon	102.5	114.0	82.5	74.0	.733	Cumuli	3	Northwest	0.06
55	14 07	108.0	120.0	85 0	76.2	790	Cumuli	2	West	0.06
55	16 07	106.0	116.0	8[illegible].0	74 0	761	Cirri	3	Calm	0 00
55	18 07	92.0	102.0	80.0			Cirri	4	W. S. W.	0.06
55	20 07			79.0	72 0	.697	Cirri	5	Calm	0 00
55	22 07			76.5	72.0	.725	Cirro-stratus	7	Calm	0.00

JUNE 23, 1842.

5 55	0 07			71.0	70.0	.683	Rain	8	Calm	0.00
7 55	2 07			7[illegible].0	70.0	.683	Stratus	10	Calm	0 00
9 55	4 07			72.2	70.0	.705	Stratus	10	Calm	0.00
Noon	6 07			73.0	70.6	.715	Stratus	10	Calm	0.00
3 55	8 07	84.0	90.0	80.0	76.0	838	Cumulo-stratus	9	Calm	0 00
5 55	10 07			81.5	75 0	.782	Cumuli	10	N. N. W.	0.13
7 55	Noon			79.5	75.0	.804	Rain	10	Northwest	0.13
9 55	14 07			81.0	75.0	.7[illegible]8	Rain	10	Airs	0.06
1 55	16 07			78.0	73.0	.746	Rain	10	Airs	0 06
3 55	18 07			73.0	72.0	.764	Cumulo-stratus	10	Northwest	0.13
1 55	20 07			70.0	68.0	.659	Cumulo-stratus	10	Airs	0.06
3 55	22 07			68.0	66.0	.616	Cirro-stratus	5	Northwest	0.06

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 24, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.					
h. m.	*h. m.*	°	°	°	°	*Inch.*		10*th.*		*Lbs.*
5 55	0 07			68.0	66.0	.616	Cumulo-stratus	5	Airs	0.06
7 55	2 07			68.0	66.0	.616	Cumuli	8	Northeast	0.13
9 55	4 07			68.0	66 0	.616	Cumuli	8	Northeast	0.13
Noon	6 07			65.0	64.0	.586	Cumulo-stratus	8	Northeast	0.13
13 55	8 07			68.0	68.0	.681	Cumulo-stratus	9	Northeast	0.13
15 55	10 07			71.5	69.5	.693	Fine rain	10	N. N. E.	0.13
17 55	Noon	82.0	91.0	74.5	70 0	.677	Cumulo-stratus	9	N. N. E.	0.13
19 55	14 07	88.0	96.0	77.5	70.0	.643	Cumulo-stratus	8	N. N. E.	0.13
21 55	16 07	82.0	88.0	77.5	71.0	.678	Cumulo-stratus	8	Airs	0.06
23 55	18 07	84.0	92.0	78.0	75.0	.821	Cumulo stratus	7	Airs	0 06
1 55	20 07			72.0	66.0	.571	Cumulo-stratus	4	Airs	0 05
3 55	22 07			69.5	65.0	.567	Cumuli	1	Airs	0.06

JUNE 25, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			68.0	65.0	.573	Cirro-stratus	1	S. S. W.	0.13
7 55	2 07			67.0	65.0	.595	Cumuli	7	Airs	0.06
9 55	4 07			65.0	64.0	.586	Cumuli	7	Airs	0.06
Noon	6 07			67.0	66.0	.627	Cumuli	6	Airs	0.06
13 55	8 07	82.0	91.0	73.0	71.5	.746	Cumulo-stratus	8	S. S. W.	0.25
15 55	10 07	77 0	82.0	77.5	73.0	.751	Cumulo-stratus	10	S. S. W.	0.13
17 55	Noon			75.0	70.0	.671	Cirro-stratus	10	S. S. W.	0.06
19 55	14 07	86.0	93.0	80.5	73 0	.718	Cirro-stratus	10	S. S. W.	0.13
21 55	16 07			76.0	72.0	.731	Stratus	10	E. S. E.	0.13
23 55	18 07			74.0	70.0	.683	Stratus	10	N. by E.	0.05
1 55	20 07			72.5	69.0	.665	Stratus	10	Calm	0.06
3 55	22 07			73.0	68.0	.625	Cirro-stratus	10	S. S. W.	0.25

JUNE 26, 1842.

Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.	Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
5 55	0 07			78.0	76.0	.860	Cirro-stratus	9	S. S. W.	0 25
7 55	2 07			78.0	75.0	.821	Cirro-stratus	9	S. S. W.	0.25
9 55	4 07			78.2	76.0	.858	Cirro-stratus	9	S. S. W.	0.52
Noon	6 07			78.6	78.0	.933	Cirro-cumulus	8	W. S. W.	0 26
13 55	8 07	90.0	100.0	79.0	78.0	.929	Cirro-cumulus	8	W. S. W.	0.26
15 55	10 07	85.0	90.0	84.5	75.0	.749	Cirri & cumuli	9	West	0 33
17 55	Noon	85.0	90.0	84.5	75.0	.749	Cirri & cumuli	9	West	0 36
19 55	14 07	101.0	111.0	84.5	74.0	.711	Cirri	3	West	[illegible]
21 55	16 07	107.0	117.0	91.3	81.0	.922	Cirri	3	West	0.37
23 55	18 07	98.0	106.0	90.4	80.0	.886	Cirri	3	West	0.20
1 55	20 07			82.0	74.0	.739	Cirri	1	Calm	0 00
3 55	22 07			76.0	70.0	.661	Cirri	1	Calm	0.00

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 27, 1842.

solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind.	Pressure of the wind on a square foot.
	Washington.	Sun.	Rad.	Dry.	Wet.					
m.	h. m.	°	°	°	°	Inch.		10th.		Lbs.
55	0 07			72.0	69.0	.671	Cirri	4	Calm	0.00
55	2 07			70.0	67.0	.626	Cirri	4	Calm	0 00
55	4 07			69.5	66.0	.599	Cirri	10	Calm	0.00
on	6 07			71.3	70.0	.713	Cirri	10	Calm	0.00
55	8 07	92.0	100.0	81.5	76.0	821	Cirri	3	West	0.52
55	10 07	98.0	112.0	82 6	70.6	.609	Cirri	6	Northwest	0 26
55	Noon	96.5	106.0	83 5	76.0	799	Cirro-cumulus	6	Northwest	0 26
55	14 07	102.0	112.0	85 5	74.0	.700	Cirro-cumulus	6	Northwest	0.26
55	16 07	102.0	112.0	86.0	70.6	.571	Cirro-cumulus	4	Northwest	0.26
55	18 07	90.0	100.0	85.0	72.0	.632	Cumuli	3	Northwest	0.13
55	20 07			77.0	66 0	.517	Cumuli	5	Northwest	0.06
55	22 07			74.0	64.0	.485	Clear	0	Northwest	0.26

JUNE 28, 1842.

55	0 07			70.0	64.0	.530	Clear	0	Northwest	0.06
55	2 07			67.0	62.0	.503	Clear	0	Calm	0.00
55	4 07			67.0	64.0	.563	Cumuli	2	Calm	0 00
on	6 07	74.0	82.0	67.5	66.0	.621	Cumuli	4	Calm	0.00
55	8 07	90.5	102.0	78.0	70.0	.637	Clear	0	W. N. W.	0.13
55	10 07	97.0	113.0	76.5	68.0	.586	Cumuli	4	N. N. W.	0.13
55	Noon	95.0	101 0	79.0	71.0	.663	Cumuli	4	West	0.13
55	14 07	97.0	111.0	82.5	72.0	.659	Cumuli	4	W. S. W.	0.13
55	16 07	105.0	116.0	84.5	79.0	.909	Cumuli	4	Southwest	0.13
55	18 07	85.0	91.0	84.5	77.0	.827	Cumuli	4	W. by S.	0 13
55	20 07			78.0	70.0	.639	Cumuli	4	S. by W.	0.26
55	22 07			73.5	66.0	.555	Cirro-cumulus	8	S. by W.	0.26

JUNE 29, 1842.

55	0 07			73 5	66 0	.554	Clear	0	Airs	0.06
55	2 07			69.5	61.0	.535	Clear	0	S. by W.	0.13
55	4 07			67.5	63.0	.528	Clear	0	W. by S.	0.13
on	6 07	76.0	83.0	74.5	71.0	.712	Cumuli	2	Airs	0 06
55	8 07	93.0	103.0	81.5	75.0	.782	Cirri	3	Airs	0.06
55	10 07	104.0	117.0	83.0	75.0	.766	Cirri	2	Southwest	0.13
55	Noon	103 0	115.0	86.5	80.0	.929	Cirro-cumulus	2	W. N. W.	0.13
55	14 07	112.5	125.0	88 5	84 0	1.086	Cirro-cumulus	3	W. N. W.	0.13
55	16 07	107.0	116.0	92.0	88.0	1.212	Cirro-cumulus	3	W. by S.	0.06
55	18 07	94.0	100.0	91.0	88.0	1.253	Cirro-cumulus	3	Calm	0 00
55	20 07			85.0	79.0	.904	Clear	0	Calm	0.00
55	22 07			78.0	76.0	.860	Clear	0	Calm	0.00

METEOROLOGICAL OBSERVATIONS AT WASHINGTON.

JUNE 30, 1842.

Mean solar time.		Thermometers.				Force of vapor.	Weather, and character of the clouds.	Portion cloudy.	Direction of the wind
Göttingen.	Washington.	Sun.	Rad.	Dry.	Wet.				
h. m.	h. m.	°	°	°	°	Inch.		0th.	
5 55	0 07			75.0	73.0	.779	Cirri	3	Calm
7 55	2 07			74.0	72.0	.753	Cirri	3	Calm
9 55	4 07			7[illegible].0	72.0	.7[illegible]3	Cirro-stratus	6	Calm
Noon	6 07			74.5	72.0	.716	Cirro-stratus	8	Calm
13 55	8 07	93.0	111.0	85.0	82.0	1.0[illegible]4	Cirro stratus	3	Calm
15 55	10 07	104.0	120.0	87.5	83.0	.918	Cirro stratus	4	Southw
17 55	Noon	100.0	111.0	89.2	80.0	.900	Cirro-stratus	2	S. S.
19 55	14 07	104.0	111.0	92.0	80.0	.860	Cirro stratus	3	S. S.
21 55	16 07	110.0	119.0	97.0	81.0	.913	Cirri & cumuli	4	Southwe
23 55	18 07	*88.6	92.0	91.5	80.0	.885	Cirri & cumuli	4	Southw
1 55	20 07			83.0	76.0	.805	Cirri & cumuli	4	Southw
3 55	22 07			79.5	75.0	.804	Cirri & cumuli	5	S. S. E

ABSTRACTS OF THE RESULTS

OF THE

I-HOURLY METEOROLOGICAL OBSERVATIONS,

1840, 1841, 1842.

The numbers in the following table (XIII) have been obtained by applying to the [illegible] means of the barometer (pages 308, 315) the correction for temperature corresponding [illegible] height of the attached thermometer, taken from Table II of the Royal Society's [illegible] creased by the quantity (.089) due to the elevation of the cistern above low-water [illegible] base of Capitol hill.

TABLE XIII.

Mean atmospheric pressure at each observation hour of the several months—barome[illegible] to 32° Fahrenheit, and level of low water at base of Capitol hill.

1840–'41.

M. T., Göttingen M. T., Washing'n	*h. m.* 0 00 18 12	*h. m.* 2 00 20 12	*h. m.* 4 00 22 12	*h. m.* 6 00 0 12	*h. m.* 8 00 2 12
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*
July - - -	30.031	30.034	30.042	30.047	30.046
August - -	30.002	30.015	30.023	30.021	30.024
September - -	30.078	30.095	30.106	30.111	30.106
October - -	30.070	30.081	30.094	30.093	30.088
November - -	29.996	29.994	29.999	29.996	29.990
December - -	30.069	30.072	30.082	30.074	30.080
January - -	30.122	30.142	30.155	30.161	30.147
February - -	29.952	29.962	29.969	29.971	29.955
March - -	29.889	29.908	29.930	29.918	29.924
April - - -	29.893	29.906	29.908	29.898	29.885
May - - -	29.828	29.855	29.885	29.874	29.867
June - - -	29.797	29.809	29.828	29.823	29.816
Hourly means -	29.980	29.990	30.002	29.999	29.994

1840–'41—Continued.

M. T., Göttingen M. T., Washing'n	*h. m.* Noon 6 12	*h. m.* 14 00 8 12	*h. m.* 16 00 10 12	*h. m.* 18 00 12 12	*h. m.* 20 00 14 12	*h. m.* 22 00 16 12
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
July - - -	30.055	30.062	30.086	30.079	30.048	30.037
August - -	30.034	30.057	30.048	30.031	30.0[illegible]5	29.993
September - -	30.119	30.133	30.135	30.109	30.085	30.083
October - -	30.101	30.113	30.118	30.086	30.059	30.066
November - -	30.018	30.029	30.039	29.998	29.974	29.990
December - -	30.092	30.101	30.122	30.078	30.062	30.083
January - -	30.156	30.167	30.173	30.118	30.088	30.074
February - -	29.966	29.970	29.981	29.952	29.915	29.917
March - -	29.944	29.959	29.961	29.936	29.900	29.889
April - -	29.915	29.929	29.933	29.907	29.870	29.852
May - - -	29.888	29.899	29.901	29.888	29.862	29.836
June - - -	29.838	29.859	29.868	29.842	29.816	29.789
Hourly means -	30.010	30.023	30.029	30.002	29.975	29.967

TABLE XIII—Continued.

1841-'42.

	h. m.	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*
T., Göttingen	0 00	2 00	4 00	6 00	8 00	10 00
T., Washing'n	18 12	20 12	22 12	0 12	2 12	4 12
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
y - - -	29.851	29.866	29 884	29.883	29.872	29.878
gust - -	29.990	30.006	30.022	30.015	30.013	30.013
tember - -	29.987	29.993	30.008	30.005	29.994	30.006
ober - -	30.110	30.114	30.120	30.130	30.131	30.132
vember - -	30.037	30.048	30.055	30.049	30.051	30.055
ember - -	30.057	30.075	30.071	30.060	30.052	30.052
uary - -	30.088	30.107	30.102	30.096	30.093	30.102
ruary - -	30.049	30.070	30.079	30.085	30.090	30.084
ch - -	30.073	30.118	30.118	30.117	30.109	30.117
il - -	29.999	30.016	30.028	30.027	30.024	30.030
y - -	29.972	29.991	30.010	30.016	30.011	30.015
e - - -	30.001	30.013	30.020	30.027	30.027	30.025
rly means -	30.018	30.035	30.043	30.041	30.039	30.042

1841-'42—Continued.

	h. m.	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	Monthly and annual means.
T., Göttingen	Noon	14 00	16 00	18 00	20 00	22 00	
T., Washing'n	6 12	8 12	10 12	12 12	14 12	16 12	
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
y - - -	29.896	29.913	29.919	29.896	29.874	29.839	29.881
gust - -	30.031	30.053	30.057	30.085	30.005	30.000	30.019
tember - -	30.026	30.041	30.051	30.024	29.995	29.994	30.010
ober - -	30.148	30.167	30.176	30.141	30.126	30.121	30.135
vember - -	30.068	30.094	30.096	30.053	30.032	30.030	30.056
ember - -	30.057	30.080	30.110	30.073	30.045	30.046	30.065
uary - -	30.113	30.144	30.154	30.105	30.077	30.064	30.104
ruary - -	30.086	30.103	30.119	30.092	30.068	30.060	30.082
ch - -	30.134	30.153	30.154	30.129	30.089	30.080	30.115
il - -	30.047	30.060	30.071	30.044	30.012	29.985	30.029
y - - -	30.030	30.040	30.028	30.017	29.993	29.975	30.008
e - - -	30.042	30.050	30.062	30.045	30.018	29.969	30.025
urly means -	30.056	30.075	30.083	30.054	30.028	30.014	30.044

Ve learn, from Table XIII, that the pressure of the atmosphere is constantly changing, its
rnal variations following a defined law. It is greatest at 16*h*. (Göttingen;) least at 22*h*.;
reases from 22*h*. till 4*h*.; decreases from 4*h*. till 8*h*.; increases from 8*h*. till 16*h*.; and de-

creases again from 16*h*. till 22*h*. There are thus two maxima and two minima in ea
observations, except October, 1841, which has but one maximum and one mini
following are exceptions to the general law of the hours:

The *maximum* occurred at 14*h*., instead of 16*h*., in - - - - - Augu May,

The *minimum* occurred at 20*h*., instead of 22*h*., in - - - - - Octobe Nove Decembe Decem

The *minimum* occurred at 0*h*., instead of 22*h*., in - - - - - July, May, Augu Septe Octo Febru May,

The *secondary maximum* occurred at 2*h*., instead of 4*h*., in - - - Decem Janu March

The *secondary maximum* occurred at 6*h*., instead of 4*h*., in - - - July, Janu Febru May, June,

The *secondary maximum* occurred at 8*h*., instead of 4*h*., in - - - Febr

The *secondary minimum* occurred at 6*h*., instead of 8*h*., in - - - Decem March Nove

The *secondary minimum* occurred at 10*h*., instead of 8*h*., in - - July, Febr June,

The mean monthly height is greatest in January of the first and October of the
of observation—least in June of the first and July of the second. The mean
corresponds most nearly with the monthly mean for November, and is also near
with the observation at 10*h*. (Göttingen) of the first and 4*h*. (Göttingen) of the

TABLE XIV.

atmospheric pressure in quarterly periods; barometer at 32° Fahrenheit, and level of low water.

M. T., Wash.	Summer.		Mean of summer quarters.	Autumn.		Mean of autu'n quarters.
	1840-'41.	1841-'42.		1840-'41.	1841-'42.	
h. m.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches*
18 12	29.943	29.947	29.945	30.048	30.041	30.044
20 12	29.953	29.962	29.958	30.057	30.052	30.054
22 12	29.964	29.975	29.969	30.066	30.061	30.063
0 12	29.960	29.975	29.967	30.067	30.061	30.064
2 12	29.962	29.974	29.968	30.061	30.059	30.060
4 12	29.963	29.972	29.968	30.065	30.064	30.064
6 12	29.976	29.990	29.983	30 078	30.081	30.080
8 12	29.993	30.005	29.999	30.092	30 101	30.096
10 12	29.997	30.013	30.005	30.096	30.111	30.103
12 12	29.984	29.992	29.988	30.064	30.073	30.068
14 12	29.960	29.966	29.963	30.039	30.051	30.045
16 12	29.940	29.936	29.938	30 046	30.048	30 047
- -	29.967	29.976	29.971	30.065	30.067	30.066

M. T., Wash.	Winter.		Mean of winter quarters.	Spring.		Mean of spring quarters.
	1840-'41.	1841-'42.		1840-'41.	1841-'42.	
h. m.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
18 12	30.048	30.066	30.056	29.870	30.015	29.942
20 12	30 059	30.084	30.071	29.890	30.042	29.966
22 12	30 069	30.084	30.076	29.908	39.050	29.979
0 12	30.069	30.080	30.074	29 897	30.053	29.975
2 12	30.061	30.078	30.069	29.892	30.048	29.970
4 12	30.064	30.079	30.071	29.898	30.054	29.976
6 12	30.071	30.085	30.078	29.916	30.070	29.993
8 12	30.079	30.109	30.094	29.929	30.084	30.006
10 12	30.092	30.123	30.110	29.932	30.084	30.008
12 12	30.081	30 090	30.085	29 910	30 063	29 986
14 12	30.022	30.063	30.042	29.877	30.031	29.954
16 12	30.025	30.057	30.041	29.859	30.018	29.936
- -	30.062	30.083	30.072	29.898	30.051	29.974

the summer quarters, the secondary minimum occurs two hours earlier, and the mean re is less than the mean of the year.

he autumn quarters, the minimum pressure is two hours earlier, the secondary maximum urs later, and the mean pressure is above the annual mean.

maxima and minima occur at the regular hours in the winter and spring quarters, but an of the former is above, and of the latter, below the annual pressure.

TABLE XV.

Diurnal fluctuation of the atmospheric pressure: being the excess of the height of the at each observation hour, above the mean minimum height for that hour in barometer at 32° Fahrenheit.

1840–'41.

M. T., Gött. M. T., Wash.	h. m. 0 00 18 12	h. m. 2 00 20 12	h. m. 4 00 22 12	h. m. 6 00 0 12	h. m. 8 00 2 12	h. m. 10 00 4 12	h. m Noon 6 12	h. m. 14 00 8 12	h. m. 16 00 10 12	h. m. 18 00 12 12
	Inch.	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*
July - -	.000	.003	.011	.016	.015	.013	.024	.031	.055	.048
August -	.009	.022	.030	.028	.031	.033	.041	.064	.055	.038
September -	.000	.017	.028	.033	.028	.029	.041	.055	.057	.031
October -	.011	.022	.035	.034	.029	.030	.042	.054	.054	.027
November -	.022	.020	.025	.022	.016	.024	.039	.055	.065	.024
December -	.007	.010	.020	.012	.018	.021	.030	.039	.060	.016
January -	.048	.068	.081	.087	.073	.073	.082	.093	.099	.039
February -	.037	.047	.054	.056	.040	.046	.051	.055	.066	.037
March - -	.000	.019	.041	.029	.035	.044	.055	.070	.072	.047
April - -	.041	.054	.056	.046	.033	.035	.063	.077	.081	.055
May - -	.000	.027	.057	.046	.039	.045	.060	.071	.073	.060
June - -	.008	.020	.039	.034	.027	.031	.049	.070	.069	.053
Hourly means	.015	.027	.040	.037	.032	.035	.048	.061	.067	.040

1841–'42.

July - -	.012	.027	.045	.044	.033	.039	.057	.074	.080	.057
August -	.000	.016	.032	.025	.023	.023	.041	.063	.067	.045
September -	.000	.006	.021	.018	.007	.019	.039	.054	.064	.037
October -	.000	.004	.010	.020	.021	.022	.038	.057	.066	.031
November -	.007	.018	.025	.019	.021	.025	.038	.064	.066	.023
December -	.012	.030	.026	.015	.007	.007	.012	.035	.065	.028
January -	.024	.043	.038	.032	.029	.038	.049	.080	.090	.041
February -	.000	.021	.030	.036	.041	.035	.037	.054	.070	.043
March - -	.000	.045	.040	.044	.036	.044	.061	.080	.081	.056
April - -	.014	.031	.043	.042	.039	.045	.062	.075	.086	.059
May - -	.000	.019	.038	.044	.039	.043	.058	.068	.056	.045
June - -	.032	.044	.051	.058	.058	.056	.073	.081	.093	.076
Hourly means	.008	.025	.033	.033	.029	.033	.047	.065	.074	.045

The greatest increase of pressure is between 0*h*. and 4*h*. (Göttingen,) and 10*h*. The greatest decrease occurs between 16*h*. and 20*h*., the bi-hourly increments equal in each case. Between 4*h*. and 10*h*., the barometer is almost stationary. The diurnal fluctuation is in January, and the least in October of the first and September of the year.

TABLE XVI.

Quarterly and annual means of the diurnal barometric fluctuation.

	h. m.	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m*	*h. m.*	*h. m.*	*h. m.*	*h. m.*
M. T., Gött.	0 00	2 00	4 00	6 00	8 00	10 00	Noon	14 00	16 00	18 00	20 00	22 00
M. T., Wash.	18 12	20 12	22 12	0 12	2 12	4 12	6 12	8 12	10 12	12 12	14 12	16 12
	Inch.	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*	*Inch.*
June, 1841 July, 1840 Aug., 1840	.006	.015	.027	.026	.024	0.26	.038	.055	.060	.046	.022	.002
June, 1842 July, 1841 Aug., 1841	.015	.029	.043	.042	.038	.039	.057	.073	.080	.059	.033	.003
Mean of sum'r	.010	.022	.035	.034	.031	.033	.047	.064	.070	.053	.027	.003
Sept., 1840 Oct., 1840 Nov., 1840	.011	.020	.029	.030	.024	.028	.041	.055	.059	.027	.002	.009
Sept., 1841 Oct., 1841 Nov., 1841	.002	.009	.019	.019	.016	.022	.038	.058	.065	.030	.009	.006
Mean of aut'n	.006	.014	.024	.024	.020	.025	.039	.057	.062	.029	.005	.007
Dec., 1840 Jan., 1841 Feb., 1841	.031	.042	.052	.052	.044	.046	.054	.062	.075	.031	.005	.008
Dec., 1841 Jan., 1842 Feb., 1842	.012	.031	.031	.028	.026	.027	.033	.056	.075	.037	.011	.004
Mean of winter	.021	.036	.042	.040	.035	.036	.043	.059	.075	.034	.008	.006
March, 1841 April, 1841 May, 1841	.014	.033	.051	.040	.035	.041	.059	.073	.075	.054	.021	.003
March, 1842 April, 1842 May, 1842	.005	.032	.040	.043	.038	.044	.060	.074	.075	.050	.021	.003
Mean of spring	.009	032	.045	.012	.036	.042	.060	.074	.075	.052	.021	.003
Mean 1840-'41	.015	.027	.040	.037	032	.035	.048	.061	.067	.040	.012	.005
Mean 1841-'42	.008	.025	.033	.033	.029	.033	.047	.065	.074	.045	.018	.004
Mean of 2 years	.011	.026	.037	.035	.031	.034	.047	.063	.071	.042	.015	.004

The diurnal range is greater during winter and spring quarters than summer and autumn; spring quarters most accordant in the hourly amounts of the fluctuation, and winter most divergent.

TABLE XVII.

Showing the range of the barometer in each month, from the bi-hourly observ

1840–'41.

Month.	Day.	M. T., Gött.	M. T., Wash.	Maximum.	Minimum.	Day.	M. T., Gött.	M. T., Wash.
		h.	*h. m.*	*Inches.*	*Inches.*		*h.*	*h. m.*
July	27	18	12 12	30.280	29.780	24	4	22 12
August	18	16	10 12	30.426	29.658	14	0	18 12
September	13	16	10 12	30.408	29.624	21	0	18 12
October	17	16	10 12	30.352	29.544	29	22	16 12
November	2	16	10 12	30.400	29.350	23	2	20 12
December	4	16	10 12	30.451	29.334	26	20	14 12
January	19	16	10 12	30.810	29.410	1	22	16 12
February	4	16	10 12	30.376	29.350	23	14	8 12
March	5	16	10 12	30.350	29.100	7	0	18 12
April	15	16	10 12	30.430	29.074	30	16	10 12
May	9	8 14	2 12 8 12	30.150	29.234	1	0	18 12
June	22	4	22 12	30 054	29.630	15	0 2	18 12 20 12
1841–'42.								
July	21	16	10 12	30.262	29.632	31	8	2 12
August	24	16	10 12	30.370	29.700	1	0	18 12
September	15	16	10 12	30.351	29.681	25	8 12	2 12 6 12
October	29	6 10	0 12 4 12	30.488	29.685	20	18	12 12
November	10	16	10 12	30.562	29.446	14	22 0	16 12 18 12
December	22	16	10 12	30.696	29.236	17	10 12	4 12 6 12
January	24	16	10 12	30.686	29.506	21	8 12	2 12 6 12
February	20	16	10 12	30.504	29.244	16	22	16 27
March	12	16 18	10 12 12 12	30.586	29.540	2	22 0	16 12 18 12
April	1	16	10 12	30.510	29.542	26	20	14 12
May	5	16	10 12	30.386	29.540	2	0	18 12
June	8	16	10 12	30.436	29.778	26	22	16 12

We find in TABLE XVII, as in the diurnal variations, the greatest excursions of the ba in the winter months, the least in summer; the extreme range of the first year bei 1.736 *inch*, and in the second year 1.460 *inch*.

TABLE XVIII.

Monthly means of the temperature of the air at each observation hour.

1841.

	h. m.	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*
M. T., Göttingen	0 00	2 00	4 00	6 00	8 00	10 00	Noon	14 00	16 00	18 00	20 00	22 00
M. T., Washington	18 12	20 12	22 12	0 12	2 12	4 12	6 12	8 12	10 12	12 12	14 12	16 12
	°	°	°	°	°	°	°	°	°	°	°	°
January - -	34.22	34.07	32.88	30.39	30.83	30.60	29.33	31.55	34 42	35.85	38 50	37.55
February - -	34 06	30.69	29.44	28.71	27.13	26.92	26.40	28.00	33.40	37.05	39 10	38.40
March - - -	45.54	42.37	39.97	37.97	36.38	35.16	35.36	38.10	45.38	47.47	49 68	48.86
April - - -	53.46	48.76	44.94	44.53	43.75	43.14	43.66	46.86	50.00	53.56	55.44	56.23
May - - -	63.64	58.80	55 55	54.69	52 22	51.00	55.33	59.00	62 56	65.39	67.12	66.91
June - - -	80 03	73.96	70.00	68.06	67.36	66.00	70.48	75.76	78.26	81.12	83 72	84.38
July - - -	81.33	74.93	71.56	68.78	68.09	66.78	70.64	75.19	78.38	81.13	83.25	84.76
August - -	75.93	71.48	68.00	66.82	65.12	64.17	65.69	71.39	76.09	78.70	80.73	80.09
September - -	72.30	68.59	64.90	62.70	61 90	61.00	61.29	65.73	71.02	74.66	76.50	76 30
October - -	52.94	48.40	46 60	44.90	43.70	42.30	41.70	45.00	51.61	55.30	57.00	56.20
November - -	47.30	44.20	43.20	41.80	40.70	39 40	38.80	39.50	44.10	48.00	49.20	48.50
December - -	37.95	36.26	34.70	33.50	33.16	32.20	31.60	31.88	36.00	39.20	41.30	40 60
Hourly means	56.56	52.71	50 14	48.57	47.52	46.56	47.52	50.66	55.10	58.12	60.13	59.90

1842.

January - -	39.14	36.88	35.61	34.36	33.37	32.82	32.16	31.72	36.34	40.71	43.16	42.81
February - -	42.39	40.07	38.29	36.46	35.32	34.11	33.96	34.89	40.04	43.02	45.93	46.16
March - - -	54.39	50.04	48.77	47.00	46.19	44.97	44.40	46.47	50.74	55.31	57.55	57.70
April - - -	60.97	55.60	53.30	51.30	50.08	49.10	49.32	53.01	58.04	61.80	64.51	64.18
May - - -	68.22	60.87	57 86	55.70	54.47	53.85	55.67	60.45	63.91	67.36	69.84	70.47
June - - -	73.75	70.62	67.40	65.60	64.73	64.15	66.04	71.50	76.49	77.53	80.14	81.48

Taking the mean of all the observations at each hour in the year, we find that—
The temperature of the air is *lowest* at 10*h*. Göttingen.
The temperature of the air is *highest* at 20*h*. Göttingen.
The thermometer *rises* from 10*h*. to 20*h*. Göttingen.
The thermometer *falls* from 20*h*. to 10*h*. Göttingen.

In January, February, October, November, and December, 1841, and February and March, 1842, the lowest temperature was at noon, Göttingen; and in April, June, July, 1841, and February, March, May, and June, 1842, the maximum temperature was at 22*h*. instead of 20*h*.

TABLE XIX.

Quarterly and annual means of the temperature at each observation hour.

	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
M. T., Göttingen	0 00	2 00	4 00	6 00	8 00	10 00	Noon	14 00	16 00	18 00	20 00	22 00
M. T., Washington	18 12	20 12	22 12	0 12	2 12	4 12	6 12	8 12	10 12	12 12	14 12	16 12
	°	°	°	°	°	°	°	°	°	°	°	°
January, 1841 February, 1841	34.14	32.38	31.16	29.54	28.98	28.76	27.86	29.77	33.91	36.45	38.80	37.97
December, 1841 January, 1842 February, 1842	39.83	37.74	36.20	34.77	33.95	33.04	32.57	32.86	37.46	40.98	43.46	43.19
Mean of winter	36.98	35.06	33.68	32.15	31.46	30.90	30.21	31.31	35.68	38.71	41.13	40.58
March, 1841 April, 1841 May, 1841	54.21	19.98	46.82	45.73	44.10	43.10	44.78	47.99	52.65	55.47	57.75	57.33
March, 1842 April, 1842 May, 1842	61.19	55.50	53.64	51.33	50.25	49.31	49.80	53.31	57.56	61.16	63.97	64.12
Mean of spring	57.70	52.74	50.23	48.53	47.17	46.20	47.29	50.65	55.10	58.31	60.81	60.72
June, 1841 July, 1841 August, 1841	79.10	73.46	69.85	67.89	66.86	65.65	68.94	74.11	77.58	80.32	82.57	83.05
June, 1842	73.75	70.62	67.40	65.60	64.73	64.15	66.04	71.50	76.49	77.53	80.14	81.48
Mean of summer	76.42	72.04	68.62	66.74	65.79	64.90	67.49	72.80	77.03	78.92	81.35	82.2[illegible]
September, 1841 October, 1841 November, 1841	57.50	53.73	51.57	49.80	48.77	47.57	47.26	50.08	55.58	59.32	60.90	60.3[illegible]
Mean of 1841	56.56	52.71	50.14	48.57	47.52	46.56	47.52	50.66	55.10	58.12	60.13	59.90

								°
The mean of all the observations in 1841 is -			-	-	-	-	-	52.80
Thus, the mean temperature at 2*h*. is below the mean annual temperature						-	-	0.09
Do	do	4	do	do	do	-	-	2.66
Do	do	6	do	do	do	-	-	4.23
Do	do	8	do	do	do	-	-	5.28
Do	do	10	do	do	do	-	-	6.24
Do	do	Noon	do	do	do	-	-	5.28
Do	do	14	do	do	do	-	-	2.14
The mean temperature at 16*h*. is above the mean annual temperature						-	-	2.30
Do	do	18	do	do	-	-	-	5.32
Do	do	20	do	do	-	-	-	7.33
Do	do	22	do	do	-	-	-	7.10
Do	do	0	do	do	-	-	-	3.76

The mean of all the observations at 14*h.* and 16*h.* varies from the mean annual temperature *less* than 0°.1.

Of all the observations at 8*h.* and 18*h.*, or noon and 18*h.*, the difference is still less; but we perceive that of any one hour, 2*h.* approximates most nearly.

If it were wished to determine the annual temperature from an observation at any one hour, the temperature in May at 8*h.*, (Table XVIII,) and October at 0*h.*, agrees most closely.

TABLE XX.

Mean daily range of the temperature of the air at each observation hour: being the excess of the thermometer reading at that hour above the mean minimum temperature for the month.

1841.

	h. m.	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*	*h. m.*
M. T., Gött. -	0 00	2 00	4 00	6 00	8 00	10 00	Noon	14 00	16 00	18 00	20 00	22 00
M. T., Wash. -	18 12	20 12	22 12	0 12	2 12	4 12	6 12	8 12	10 12	12 12	14 12	16 12
	°	°	°	°	°	°	°	°	°	°	°	°
January - -	4.89	4.74	3.55	1.06	1.50	1.27	0.00	2.22	5.09	6.52	9.17	8.22
February - -	7.66	4.29	3.04	2.31	0.73	0.52	0.00	1.60	7.00	10.65	12.70	12.00
March - -	10.38	7.21	4.81	2.81	1.17	0.00	0.19	2.94	10.22	12.31	14 52	13.70
April - -	10.34	5.62	1.80	1.39	0.61	0.00	0.52	3.72	6.86	10.42	12.30	13,09
May - -	12.64	7.80	4.55	3.69	1.22	0.00	4.83	8.00	11.56	14.39	16.12	15.91
June - -	14.03	7.96	4.00	2.06	1.36	0.00	4.48	9.76	12.26	15.12	17.72	18.38
July - -	14.55	8.15	4.78	2.00	1.31	0.00	3.86	8.41	11.60	14 35	16.47	17.98
August - -	11.76	7.31	3.83	2.65	0.95	0.00	1.52	7.22	11.92	14.53	16.56	15.92
September -	11.30	7.59	3.90	1.70	0.90	0.00	0.29	4.73	10.02	13.66	15.50	15.30
October - -	11.24	6.70	4.90	3.20	2.00	0 60	0.00	3.30	9.91	13.60	15.30	14.50
November -	8.50	5.40	4.40	3.00	1.90	0.60	0.00	0.70	5.30	9.20	10.40	9.70
December -	6.35	4.66	3.10	1.90	1.56	0.60	0.00	0.28	4.40	7.60	9.70	9.00
Hourly means	10.30	6.45	3.89	2.31	1.27	0 30	1.27	4.41	8.85	11.86	13.87	13.64

1842.

January - -	7.42	5.16	3.89	2.64	1.65	1.10	0.44	0 00	4.62	8.99	11,44	11.09
February - -	8.43	6.11	4.33	2.50	1.36	0.15	0.00	0.93	6.08	9.06	11.97	12.20
March - -	9.99	5.64	4 37	2.60	1.79	0.57	0.00	2.07	6.34	10.91	13.15	13.30
April - -	11.87	6.50	4.20	2.20	0.98	0.00	0.22	3.91	8.94	12.70	15.41	15.08
May - -	14.37	7.02	4.01	1.85	0.62	0.00	1.81	6.60	10.06	13.51	15.99	16.62
June - -	9.60	6.47	3.25	1.45	0.58	0.00	1.89	7.35	12.34	13 38	15.99	17.33

The greatest daily range of the temperature is in June, the amount being 18°.38 in 1841, and 17°.33 in 1842; the least range is in January, being 9°.17 in 1841, and 11°.44 in 1842. The greatest increase of the temperature occurs between 14*h.* and 16*h.* Göttingen; the greatest decrease between 0*h.* and 2*h.*; whilst from 8*h.* till noon, and from 20*h.* to 22*h.*, it is nearly stationary, the former being about the minimum and the latter the maximum period.

TABLE XXI.

Mean monthly temperature of the air, from all the observations in each

Months.	Temperature.	Months.	Tem
	°		
January, 1841 - - -	33.35	October, 1841 - - -	
February, 1841 - - -	31.61	November, 1841 - - -	
March, 1841 - - -	41.93	December, 1841 - - -	
April, 1841 - - -	48.69	January, 1842 - - -	
May, 1841 - -	59.35	February, 1842 - - -	
June, 1841 - - -	74.93	March, 1842 - - -	
July, 1841 - - -	75.40	April, 1842 - - -	
August, 1841 - - -	72.02	May, 1842 - - -	
September, 1841 - - -	68.07	June, 1842 - - -	

In 1841, February is the coldest and July the warmest month, the annual range
perature being 43°.79.

Taking the mean for the month of December, 1840, from the mean of the
A. M., 9*h*. A. M., 3*h*. P. M., and 9*h*. P. M., (30°.28,) we have the—

Temperature of the winter, 1840–'41 - - - - - -
Do spring, 1841 - - - - - -
Do summer, 1841 - - - - - - -
Do autumn, 1841 - - - - - - -
Do winter, 1841–'42 - - - - -
Do spring, 1842 - - - - - - -

The winter and spring of 1842 are, on an average, 5½° warmer than corresponding
the preceding year; and the month of June, 1842, 3½° cooler than the same month in
The mean temperature of the year 1841, resulting from all the monthly tempera
52°.80—

The mean temperature in January is below the mean of the year - -
Do February do do - -
Do March do do - -
Do April do do - -
Do October do do - -
Do November do do - -
Do December do do - -
The mean temperature in May is above the mean of the year - -
Do June do do - -
Do July do do - -
Do August do do - -
Do September do do - -

October and April are therefore nearer the mean temperature than any other months,
mean of February and August exceeds it only 0°.01.

TABLE XXII.

Extreme range of the temperature in each month.

1840–'41.

Month.	Day.	M. T., Gött.	M. T., Wash.	Maximum.	Minimum.	Day.	M. T., Gött.	M. T., Wash.	Monthly range.
		h.	h. m.	°	°		h.	h. m.	°
ust									
ember									
ber									
ember									
ember									
ary	7	18	12 12	55.0	7.0	3	12	6 12	48.0
uary	23	20	14 12	62.0	7.5	12	12	6 12	54.5
ch	27	22	16 12	75.0	17.0	15	10 12	4 12 6 12	58.0
il	9	22	16 12	74 0	32.0	*	*		42.0
r	21	22	16 12	84.0	34.0	4	8 10	2 12 4 12	50.0
e	8	20 22	16 12 18 12	94.0	54.0	1	8 12	2 12 6 12	40.0

1841–'42.

Month.	Day.	M. T., Gött.	M. T., Wash.	Maximum.	Minimum.	Day.	M. T., Gött.	M. T., Wash.	Monthly range.
	24	22	16 12	94.5	57.0	27	10	4 12	37.5
ust	21	22	16 12	91.0	54.0	18	10	4 12	37.0
ember	4	20	14 12	87.6	48.0	26	12	6 12	39.6
ber	11	20	14 12	67.5	27.0	26	6 14	0 12 8 12	40 5
ember	1	20	14 12	74.0	19.5	30	14	8 12	54.5
ember	9	20	14 12	58.5	13.0	1	6	0 12	45.5
ary	20	20	14 12	63.5	12.5	24	14	8 12	51.0
uary	4	22	16 12	70.0	14.0	17	14	8 12	56.0
ch	19	22	16 12	82.0	27.0	12	14	8 12	55.0
il	25	22	16 12	85.0	30.0	1	12	6 12	55.0
r	29	20	14 12	85.5	43.0	6	10 12	4 12 6 12	42.5
e	30	22	16 12	97.0	45.0	12	10 12	4 12 6 12	52 0

he greatest variations in the temperature of the air occur during the months of January, ruary, and March, and least in June, July, and August; the average of the former being , and of the latter only 38°. The extreme range in the first year was 87°, and in the sec- 84°.5.

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* The thermometer was at 32° on several occasions in April, 1841.

ABSTRACTS OF THE RESULTS

OF THE

ETEOROLOGICAL OBSERVATIONS,

AT

3 A. M., 9 A. M., 3 P. M., AND 9 P. M.,

FOR

1838, 1839, 1840, 1841, 1842.

TABLE XXIII.

Monthly atmospheric pressure.

Month	At 3 A. M. 1838.	1839.	1840.	1841.	1842.	At 9 A. M. 1838.	1839.	1840.	184
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inch*
Jan. -		30.116	30.080	30.066	30.048		30.149	30.097	[illegible]
Feb. -		30.125	30.189	29.902	30.032		30.166	30.210	[illegible]
March		30.045	29.916	29.859	30.098		30.096	29.911	[illegible]
April -		30.043	30.135	29.873	30 024		30.068	30.192	[illegible]
May -		29.980	30.021	29.866	30.015		30.013	30.040	[illegible]
June -		29.973	30.016	29.846	30.009		29.999	30.044	[illegible]
July -		30.014	30.102	29.906		30.122	30.040	30.121	[illegible]
Aug. -		30.044	30.036	30.017		30.172	30.050	30.081	[illegible]
Sept. -		30.062	30.105	30.014		30.179	30.109	30.139	[illegible]
Oct. -		30.250	30.072	30.120		30.070	30.276	30.115	[illegible]
Nov. -	30.177	30.132	29.974	30.038		30.222	30.150	30 009	[illegible]
Dec. -	30.037	29.899	30.030	30.004		30.086	29.913	30.069	[illegible]

Month.	At 3 P. M. 1838.	1839.	1840.	1841.	1842.	At 9 P. M. 1838.	1839.	1840.	184
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches*	*Inch*
Jan. -		30.119	30.061	30.038	30.049		30.118	30.088	[illegible]
Feb. -		30.109	30.163	29.853	30.016		30.118	30.162	[illegible]
March		30.061	29.889	29.859	30.063		30.066	29.908	[illegible]
April -		30.030	30.157	29.845	30.001		30.028	30.118	[illegible]
May -		29.977	29.988	29.849	29.989		29.984	30.016	[illegible]
June -		29.981	30.010	29.849	30.038		29.977	30.012	[illegible]
July -	30.088	30.022	30.100	29.901			30.015	30.110	[illegible]
Aug. -	30.123	30.047	30.042	30.038			30.051	30.048	[illegible]
Sept. -	30.159	30.054	30.092	30.026			30.059	30.100	[illegible]
Oct. -	30.013	30.228	30.056	30.104			30.232	30.079	[illegible]
Nov. -	30.170	30.116	29.959	30.010		30.208	30.128	29.974	[illegible]
Dec. -	30.046	29.897	30.024	29.993		30.034	29.907	30.043	[illegible]

On comparing the temperature of the air in the several years with that of the room, (in which the barometer was suspended,) and which may therefore serve an attached thermometer in reducing the observations of 1838, 1939, and 1840, necessary to apply the following corrections to the monthly temperature at each hour. The readings are also increased by the quantity .089, due to elevation.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Month.	3 A. M.	9 A. M.	3 P. M	
	°	°	°	°		°	°	°	
Jan.	+ 10.9	+ 9.8	+ 5.9	+ 9.4	July	+ 8.6	— 0·3	— 3.3	+
Feb.	+ 11.9	+ 9.9	+ 2.8	+ 10.7	Aug.	+ 7.8	± 0.0	— 3.1	—
March	+ 12.8.	+ 6.9	+ 2.8	+ 9.6	Sept.	+ 9.8	+ 2.9	— 1.7	+
April	+ 12.8	+ 4.5	+ 0.4	+ 9.6	Oct.	+ 18.1	+ 10.8	+ 3.9	+
May	+ 11.1	+ 2.2	— 2.4	+ 7.2	Nov.	+ 18.4	+ 13.1	+ 8.8	+
June	+ 8.2	— 0.7	— 4·4	+ 5.0	Dec.	+ 12.5	+ 9 4	+ 5.7	+

METEOROLOGICAL OBSERVATIONS.

TABLE XXIV.

Mean atmospheric pressure at each hour of observation; barometer at 32° Fahrenheit, and level of low water at base of Capitol Hill.

Month.	3 A. M.					9 A. M.				
	1838.	1839.	1840.	1841.	1842.	1838.	1839.	1840.	1841.	1842.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
Jan. -		30.185	30.174	30.133	30.096		30.210	30.179	30.174	30.156
Feb. -		30.185	30.250	29.969	30.077		30.216	30.254	29.983	30.121
March -		30.082	29.951	29.932	30.113		30.141	29.944	29.974	30.159
April -		30.051	30.145	29.893	30.028		30.075	30.200	29.936	30.070
May -		29.967	30.009	29.868	30.012		29.998	30.034	29.907	30.028
June -		29.959	29.994	29 815	29.986		29.987	30.023	29.861	30.063
July -		29.981	30.062	29.873		30.082	30.006	30.089	29.916	
Aug. -		30.029	30.001	29.994		30.135	30.027	30.050	30.042	
Sept. -		30.049	30.101	29.992		30.152	30.096	30.131	30.047	
Oct. -		30.233	30.060	30.127		30.070	30.257	30.106	30.174	
Nov. -	30.204	30.166	29.994	30.053		30.252	30.177	30.030	30.099	
Dec. -	30.105	29.955	30.097	30.059		30.154	29.968	30.126	30.118	

Month.	3 P. M.					9 P. M.				
	1838.	1839	1840.	1841.	1842.	1838.	1839.	1840.	1841.	1842.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches*	*Inches.*	*Inches.*	*Inches.*
Jan. -		30.178	30.122	30 091	30.090		30.171	30.173	30.137	30.095
Feb. -		30.156	30.198	29.911	30 056		30.167	30.199	29.967	30.088
March -		30.084	29.908	29.891	30.074		30.100	29.936	29.922	30.115
April -		30.018	30.153	29.858	30 002		30.030	30.115	29.887	30.007
May -		29.958	29.977	29.843	29.982		29.963	30.010	29 889	30.006
June -		29.965	29.987	29 805	30.011		29.963	29.990	29.820	30.020
July -	30.033	29.987	30.068	29.856			29.980	30.078	29.876	
Aug. -	30.075	30.024	30.010	30.002			30.035	30.024	30.022	
Sept. -	30 181	30.039	30.080	29 996			30.050	30.105	30.007	
Oct. -	30.023	30.214	30.049	30.112			30.223	30.079	30.125	
Nov. -	30.193	30.181	29.973	30.025		30.235	30.150	29.998	30.048	
Dec. -	30.107	29.949	30.076	30.038		30.106	29.970	30.096	30.065	

TABLE XXV.

Monthly and annual means of the atmospheric pressure at each observation hour; barometer reduced.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Daily means.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*
January - -	30.147	30.179	30.120	30.144	30.147
February - -	30 120	30.143	30.080	30.105	30.112
March - -	30.019	30.054	29.989	30.018	30.020
April - - -	30.029	30.070	30.008	30.010	30.029
May - - -	29.962	29.992	29.940	29.967	29.965
June - - -	29.938	'29.983	29.942	29.948	29.953
July - - -	29.972	30.024	29.986	29.978	29.990
August - -	30 008	30.063	30.028	30.027	30.031
September - -	30.047	30.106	30.061	30.054	30.067
October - -	30.140	30.152	30.099	30.142	30.133
November - -	30.104	30.139	30.081	30.106	30.107
December - -	30.054	30.091	30.037	30.049	30.060
Annual means -	30.045	30.083	30.031	30.055	30.051

The results of the bi-hourly observations stated in page 600 afford better evidence of the maxima and minima of the atmospheric pressure than those which form the subject of the present tables. It remains only to state, that the pressure is greater at 9 A. M than at 10*h*. 12*m*. (16*h*. Göttingen) during the larger portion of the two years, justifying the belief that the barometric column is generally highest at that hour, and that uniformly from September to March (exclusive) it has already begun to rise at 4*h*. 12*m*. P M., (16*h*. 12*m*.,) showing that the greater minimum is nearer to 3*h*. than to 4*h*. P. M. The mean diurnal oscillation from all these observations is in—

January - - - - - - - -	.059
February - - - - - - -	.063
March - - - - - - - -	.065
April - - - - - - - -	.063
May - - - - - - - -	.058
June - - - - - - - -	.041
July - - - - - - - -	.036
August - - - - - - - -	.035
September - - - - - - -	.045
October - - - - - - - -	.053
November - - - - - - -	.058
December - - - - - - -	.054

In the first year of observation the pressure was greatest in			- -	November
In the second	do	do	do - - -	October.
In the third	do	do	do - - -	January.
In the fourth	do	do	do - - -	October.
In the first	do	do	least - - -	June.
In the second	do	do	do - - -	March.
In the third	do	do	do - - -	June.
In the fourth	do	do	do - - -	July.

TABLE XXVI.

Quarterly and annual means of the atmospheric pressure; barometer reduced.

Month and year.	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Daily means.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*
December, 1838 January, 1839 February, 1839	30.158	30.190	30.147	30.148	30.161
December, 1839 January, 1840 February, 1840	30.126	30 134	30.090	30.104	30.113
December, 1840 January, 1841 February, 1841	30.066	30.094	30.029	30.063	30.060
December, 1841 January, 1842 February, 1842	30.077	30.131	30.061	30.083	30.090
Mean of winter	30.107	30.137	30.082	30.099	30.106
March, 1839 April, 1839 May, 1839	30.033	30.071	30.020	30.031	30.039
March, 1840 April, 1840 May, 1840	30.035	30.059	30.013	30.020	30.032
March, 1841 April, 1841 May, 1841	29.891	29.939	29.861	29.899	29.898
March, 1842 April, 1842 May, 1842	30.051	30.086	30.019	30.043	30.050
Mean of spring	30.002	30.039	29.979	29.998	30.005
uly, 1838 August, 1838		30.108	30.054		
une, 1839 uly, 1839 August, 1839	29.990	30.008	29.992	29.993	29.996
une, 1840 uly, 1840 ugust, 1840	30.019	30.054	30.022	30.031	30.031
une, 1841 uly, 1841 ugust, 1841	29.894	29.948	29.888	29.906	29.908
une, 1842	29.986	30.063	30.011	30.020	30.029
Mean of summer	29.972	30.017	29.978	29.987	29.989

TABLE XXVI—Continued.

Month and year.	3 A. M.	9 A. M.	3 P. M.	9 P. M.
	Inches.	*Inches.*	*Inches.*	*Inches.*
September, 1838 October, 1838 November, 1838		30.158	30.106	
September, 1839 October, 1839 November, [illegible]9	30.149	30.177	30.128	30.141
September, [illegible]0 October, 1840 November, 1840	30.052	30.089	30.034	30.059
September, 1841 October, 1841 November, 1841	30.057	30.107	30.044	30.059
Mean of autumn	30.086	30.124	30.069	30.086
Mean in 1839 -	30.070	30.097	30.059	30.067
Mean in 1840 -	30.070	30.097	30.050	30.066
Mean in 1841 -	29.976	30.019	29 944	29.980
Mean of three years	30.039	30.071	30.018	30.038

TABLE XXVII.

Excess of the atmospheric pressure, at each observation hour, in the several mean monthly value at that hour, as derived from all the

Month.	3 A. M.					9 A. M.		
	1838.	1839.	1840.	1841.	1842.	1838.	1839.	1840.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
Jan. -		+.038	+.027	—.014	—.051		+.031	±.000
Feb. -		+ .065	+.130	—.151	—.043		+.073	+.111
March		+.063	—.068	—.087	+.094		+.087	—.110
April		+.022	+.116	—.136	—.001		+.005	+ 130
May -		+.005	+.047	—.094	+.050		+.006	+.042
June -		+.021	+.056	—.123	+.048		+.004	+.040
July -		+.009	+.090	—.099		+.058	—.015	+.065
Aug.		+.021	—.007	—.014		+.072	—.0[illegible]	—.013
Sept.		+.002	+.054	—.056		+.046	—.010	+ 025
Oct. -		+.093	—.080	—.013		—.082	+.105	—.046
Nov.	+.100	+.062	—.110	—.051		+.113	+.038	—.109
Dec. -	+.051	—.099	+.043	+.005		+.063	—.123	+.035

TABLE XXVII—Continued.

Month.	3 P. M.					9 P. M.				
	1838.	1839.	1840.	1841.	1842.	1838.	1839.	1840.	1841.	1842.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
Jan. -		+.058	+.002	—.029	—.030		+.027	+.029	—.067	—.049
Feb. -		+.076	+.118	—.169	—.024		+.062	+.094	—.138	—.017
March		+.095	—.081	—.098	+.085		+.082	—.082	—.096	+.096
April		+.010	+.145	—.150	—.006		+.020	+.105	—.123	—.008
May -		+.018	+.037	—.097	+.042		—.004	+.043	—.078	+.039
June -		+.023	+.045	—.137	+.069		+.015	+.042	—.128	+.072
July -	+.047	+.001	+.082	—.130			+.002	+.100	—.102	
Aug.	+.047	—.004	—.018	—.026			+.008	—.003	—.005	
Sept.	+.070	—.022	+.019	—.065			—.004	+.051	—.047	
Oct. -	—.076	+.115	—.050	+.013			+.081	—.063	—.017	
Nov.	+.112	+.050	—.108	—.056		+.129	+.044	—.113	—.058	
Dec. -	+.070	—.088	+.039	+.001		+.047	—.089	+.037	+.006	

This table shows that the pressure is most irregular in the months commencing with October and ending with April, the greatest ± variations being found within that period of each year. Of the months, August is most uniform, and of the hours, generally, 9 A. M.; but the height of the mercurial column was almost exactly the same at 9 P. M. in August of each year.

The greatest elevation above the mean place was—

	1838.	1839.	1810.	1841.	1842.
At 3 A. M.	November	October	February	December	March.
At 9 A. M.	November	October	April	December	March.
At 3 P. M.	November	October	April	October	March.
At 9 P. M.	November	March	April	December	March.

The greatest depression below the mean place was—

	1838.	1839.	1840.	1841.	1842.
At 3 A. M.		December	November	February	January.
At 9 A. M.	November	December	March	February	January.
At 3 P. M.	November	December	November	February	January.
At 9 P. M.		December	November	February	January.

TABLE XXVIII.

Mean monthly temperature of the air at each hour of observation in the

Month	3 A. M.					Mean.	9 A. M.			
	1838.	1839	1840.	1841.	1842.		1838.	1839.	1840.	1841
	°	°	°	°	°	°	°	°	°	°
January -		26.87	17.97	30.07	38.11	27.00		31.29	23.42	32.15
February -		29.30	33.02	27.57	35.28	31.29		35.46	37.72	30.72
March -		37.09	37.97	35.35	45.77	39.04		42 87	45.07	42.21
April -		48.13	47.20	44.11	49.64	47.27		57.03	56.62	48.81
May -		58.70	57.46	52.05	54.15	55.59		67.47	64.07	60.72
June -		61.13	63.70	67.03	64.56	64.10		69.08	72.40	76.55
July -		67.05	70.36	67.85		68.42	82.94	75 80	76.34	76.57
August -		61.61	72.16	64.97		66.25	80.58	72.03	75.39	73.69
September		58.28	55.83	61.61		58.57	71.13	66.02	64 07	68.97
October -		51.90	50.58	43.43		48.64	53.00	60.53	56.69	48.26
November	35.72	32.95	38 35	39.69		36.68	39.60	40.93	42.55	41.97
December	26.16	30.52	26.31	32.72		28.93	29.90	34.19	29.68	34.27

Month.	3 P. M.					Mean.	9. P. M.			
	1838.	1839.	1840.	1841.	1842.		1838.	1839.	1840.	1841.
	°	°	°	°	°	°	°	°	°	°
January -		36.97	31.36	37.31	43.51	37.29		30.84	22.97	31.63
February -		43.46	48.24	39.28	46.26	44.31		35.14	39.33	30.55
March -		52.48	54.36	48.43	57.87	53.28		41.93	43.84	40.74
April -		67.67	65.93	56.38	65.23	63.80		53.80	56.05	47.51
May -		73.60	70.42	67.40	70.31	70.43		63.10	63.26	57.56
June -		74.63	76.77	83 80	79.36	78.89		68.20	70.82	72.64
July -	88.13	81.00	80.24	84.11		83.37		75.23	74.40	72.24
August -	85.42	75.39	79 36	80.40		80.14		72 27	75.17	69.47
September	75.90	71.13	70.22	76.59		73.46		66.77	61.63	65.72
October -	59.81	65.22	62.66	57.28		61.24		57.39	54.14	47.98
November	46.40	46.00	50.07	49.47		47.98	38.70	36.73	41.97	43.50
December	35.29	39.10	35.92	41.24		37.89	29.61	32.84	29.29	36.25

TABLE XXIX.

n of the monthly temperature from the mean, derived from all the observations in corresponding months of the different years.

3 A. M.					9 A. M.				
1838.	1839.	1840.	1841.	1842.	1838.	1839.	1840.	1841.	1841.
°	°	°	°	°	°	°	°	°	°
	—0.13	—9.03	+3.07	+6.11		+1.12	—6.75	+1.98	+3.77
	—1.99	+1.73	—3.72	+4.00		+0.24	+2.50	—4.50	+1.66
	—1.95	—1.07	—3.69	+6.73		—1.89	+0.81	—2.55	+4.23
	+0.86	—0.07	—3.16	+2.37		+2.48	+2.07	—5.74	+1.20
	+3.11	+1.86	—3.54	—1.44		+3.80	+0.40	—2.95	—1.24
	—2.97	—0.40	+2.98	+0.46		—3.68	—0.36	+3.82	+0.28
	—1.37	+1.94	—0.57		+5.03	—2.11	—1.57	—1.34	
	—4.64	+5.91	—1.28		+5.16	—3.39	—0.08	—1.78	
	—0.29	—2.74	+3.04		+4.58	—1.53	—3.48	+1.44	
	+3.26	+1.94	—5.21		—1.62	+5.91	+2.07	—6.36	
—0.96	—3.73	+1.67	—3.01		—1.66	—0.33	+1.29	+0.61	
—2.77	+1.59	—2 62	+3.79		—2.11	+2.18	—2.33	+2.26	
3.73	25.89	30.98	37.01	21.21	20.16	28.66	22.16	35.28	12.33

3 P. M.					9 P. M.				
1838.	1839	1840.	1841.	1842.	1838.	1839.	1840.	1841.	1842.
°	°	°	°	°	°	°	°	°	°
	—0.32	—5.98	+0.02	+6.22		+0.39	—7.38	+1.18	+5.92
	—0.85	+3.93	—5.02	+1.95		—0.82	+3.37	—5.41	+2.88
	—0.80	+1.08	—4.85	+4.59		—2.13	—0.22	—3.32	+5.65
	+3.87	+2.13	—7.42	+1.43		—0.80	+3.05	—5.49	+1.64
	+3.17	—0.01	—3.03	—0.12		+2.29	+2.45	—3.25	—1.49
	—4.26	—2.12	+4.91	+0.47		—2.13	+0.49	+2.31	—0.67
+4.76	—2.37	—3.13	+0.74			+1.27	+0.44	—1.72	
+5.28	—4.75	—0.78	+0 26			—0.03	+2.87	—2.83	
+2.44	—2.33	—3.24	+3.13			+2.07	—3.08	+1.02	
—1.43	+3.98	—1.42	—3.96			+4.22	+0.97	—5.19	
—1 58	—1.98	+2.09	+1.49		—1.28	--3.25	+1.99	+2.52	
—2.60	+1.21	—1.97	+3.35		—2.39	+0.84	—2.71	+4.25	
18.09	29.89	27.83	38.19	14.78	3.67	20.24	29.02	38.49	18.25

At 3 A. M., the temperature of 1839 is least irregular.
Do do 1842 is most do.
At 9 A. M., do 1840 is least do.
Do do 1838 is most do.
At 3 P. M., do 1842 is least do.
Do do 1841 is most do.
At 9 P. M., do 1839 is least do.
Do do 1841 is most do.

TABLE XXX.

Sum of the variations of the monthly temperatures from the mean.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Sums.
	°	°	°	°	°
January - - -	18.34	13.52	12.49	14.87	59.22
February - - -	11.44	8.90	11.76	12.48	44 58
March - - -	13.44	8.98	11.32	11.33	45.07
April - - -	6.46	11.49	14.85	10.98	43.79
May - - -	9.95	8.39	6.33	9.48	34.15
June - - -	6.76	8.09	11.76	5.60	32.21
July - - -	*5.17	10.05	11.00	*4.57	30 79
August - - -	*15.77	10.31	11.07	*7.64	44.79
September - - -	*8.09	11.03	11.14	*8.23	38.49
October - - -	*13.88	15.96	10.79	*13.51	54.14
November - - -	9.37	3.39	7.14	9.04	29.44
December - - -	10.77	8.88	9.13	10.19	38.97
Sums -	129.44	119.49	128.78	117.92	

These numbers indicate that the temperature of the several years has been most regular at 3 A. M. in July, April. and June; at 9 A. M. in November, June, and May; at 3 P. M. in May, November, and December; and at 9 P. M. in July, June, and August—the order of uniformity of the hours being 9 P. M., 9 A. M., 3 P. M., 3 A. M.; and of the months, November, July, June, May, September, December, April, February, August, March, October, January.

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* There having been no observations at 3 A. M. and 9 P. M., during the months of July, August, September, and October, 1838, in order to make the four years complete, and all the months comparable, the numbers standing opposite these hours in Table XXIX have been increased by one-third of their sum.

TABLE XXXI.

Quarterly and annual means of the temperature of the air.

	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Daily means.
	°	°	°	°	°
July, 1838 August, 1838		81.76	86.77		
June, 1839 July, 1839 August, 1839	63.26	72.30	77.01	71.90	71.12
June, 1840 July, 1840 August, 1840	68.74	74.71	78.79	73.46	73.92
June, 1841 July, 1841 August, 1841	66.62	75.61	82.77	71.45	74.11
June, 1842	64.56	72.99	79.36	69.66	
Mean of summer	65.80	75.47	80.94	71.62	73.05
September, 1838 October, 1838 November, 1838		54.58	60.70		
September, 1839 October, 1839 November, 1839	47.71	55.82	60.78	53.63	54.48
September, 1840 October, 1840 November, 1840	48.25	54.44	60.98	52.58	54.06
September, 1841 October, 1841 November, 1841	48.24	53.07	61.11	52.07	53.62
Mean of autumn	48.05	54.48	60.89	52.89	54.04
December, 1838 January, 1839 February, 1839	27.44	32.32	38.57	31.86	32.52
December, 1839 January, 1840 February, 1840	27.17	31.78	39 57	31.71	32.56
December, 1840 January, 1841 February, 1841	27.98	30.85	37.50	30.49	31.70
December, 1841 January, 1842 February, 1842	33.70	35.06	43.67	37.15	37.40
Mean of winter	29.07	32.48	39.83	32.80	33.54

TABLE XXXI—Continued.

	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Daily means
	°	°	°	°	°
March, 1839 April, 1839 May, 1839	47.97	55.79	64.56	52.94	55.32
March, 1840 April, 1840 May, 1840	47.54	55.25	63.57	54.38	55.19
March, 1841 April, 1841 May, 1841	43.84	50.58	57.40	48.60	50.10
March, 1842 April, 1842 May, 1842	49.85	55.72	64.47	54.59	56.16
Mean of spring	47.80	54.33	62.50	52.63	54.10
Mean in 1839 -	46.96	54.39	60.55	52.85	53.69
Mean in 1840 -	47.58	53.67	60 46	52.74	53 61
Mean in 1841 -	47.20	52.90	60.14	51.23	52.67
Mean in 3 years	47.25	53.65	60.38	52.27	53.39

The uniformity of temperature in the different quarters appears to be in the following order: autumn, summer, winter, spring—the extreme variations from the mean, during the whole period of observation, being in autumn 0°.86; in summer, 2°.99; in winter, 5°.70; and in spring, 6°.06. Taking the means derived from all the observations in the several quarters, we find that—

						°
The summer of	1839	was colder than mean summer temperature			- - -	1.93
Do	1840	warmer	do	do	- - -	0.67
Do	1841	warmer	do	do	- - -	1.06
The autumn of	1839	was warmer than mean autumn temperature			- - -	0.44
Do	1840	warmer	do	do	- - -	0.05
Do	1841	colder	do	do	- - -	0.43
The winter of	1839	was colder than mean winter temperature			- - -	1.02
Do	1840	colder	do	do	- - -	0.96
Do	1841	colder	do	do	- - -	1.64
Do	1842	warmer	do	do	- - -	2.26
The spring of	1839	was warmer than mean spring temperature			- - -	1.15
Do	1840	warmer	do	do	- - -	1.06
Do	1841	colder	do	do	- - -	4.09
Do	1842	warmer	do	do	- - -	1.9

TABLE XXXII.

Monthly and annual temperature.

Month.	1838.	1839.	1840.	1841.	1842.	Mo. means.
	°	°	°	°	°	°
January - -		31.49	23.93	32.79	36.73	31.23
February - -		36.84	39 58	32.03	39.34	36.70
March - -		43.59	45.31	41.68	50.58	45.29
April - -		56.66	56.45	49.20	56.31	54.65
May - - -		65.72	63.80	59.43	61.55	62 63
June - - -		68.26	70.92	75.01	71.64	71.48
July - - -		74.77	75.34	75.19		75.10
August - -		70.32	75.52	72.13		72.66
September - -		65.55	62.92	68.22		65.56
October - -		58.76	56.02	49.24		54.67
November - -	40.10	39.15	43.23	43.41		41.47
December - -	30.24	34.16	30.30	36.12		33.61
Annual means -		53.69	53.61	52.87		53.75

January is the coldest and July the warmest month of the year. As exceptions to the law, August, 1840, and February, 1841, were the warmest and coldest months of their respective years. The mean temperature of April and October is almost precisely the same in each year, their means in four years differing only one-fiftieth of a degree. The greatest increase of temperature occurs between the months of March and April; the greatest decrease between October and November—April being on an average 9°.36 warmer than March, and November 13°.20 colder than October.

TABLE XXXIII.

Monthly maxima and minima of the temperature.

Month.	1838.		1839.		1840.		1841.		1842.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°	°	°	°	°	°	°	°	°	°
January - -			37.74	22.90	32.00	14.90	40.98	24.06	47.35	29.58
February - -			43.93	28.07	50.34	30.09	41.86	21.77	48.68	30.09
March - -			55 52	33.45	56.86	36.35	51.51	33.66	60.07	41.76
April - -			73.37	44.83	68.80	44.03	58.23	40.80	66.87	46.90
May - -			79.32	53.10	76.03	51.45	68.46	50.82	72.75	51.73
June - -			76.53	58.69	78.87	62.13	85.88	64.77	81.70	63.57
July - -	92.77	74.55	81.34	64.00	81.16	67 68	85.42	65 13		
August - -	89.19	72.58	77.02	59.88	80.99	69.13	81.76	63.68		
September -	78.93	61.03	74.32	52 40	71.33	51.57	77.53	59.01		
October - -	63.97	40.36	68.98	46.80	64.43	45.37	58.07	40.76		
November -	49.80	30.70	47.13	29.13	50.81	32.07	50.51	37.17		
December - -	39 18	21.45	40 48	27.07	40.10	18.42	43.07	29.67		

TABLE XXXIV.

Mean daily range of the temperature in each month, from the registering

Month.	1838.	1839.	1840.	1841.	1842.
	°	°	°	°	°
January - -		14.84	17.10	16.92	17.77
February - -		15.85	20.25	20.09	18.59
March - -		22.07	20 51	17.85	18.31
April - -		28.54	24.77	17.43	19.97
May - - -		26.22	24.58	17.64	21.02
June - -		17.84	16.74	21.11	18 13
July - - -	18.22	17.34	13.58	20.39	
August - -	16.61	17.14	11.86	18.08	
September - -	17.90	21.92	19.76	18.52	
October - -	23.61	22.18	19.06	17.31	
November -	19.10	18.00	18.74	13.34	
December - -	17.73	13.41	21.68	13 40	
Annual means -		19.61	19.05	17.67	

TABLE XXXV.

Showing the days, maxima, minima, and range of the temperature, in each registering thermometers.

Month.	1838.					1839.		
	Maximum.	Minimum.	Range of temperature.	Day of maximum.	Day of minimum.	Maximum.	Minimum.	Range of temperature.
	°	°	°			°	°	°
January - -						66.0	6.0	60.0
February -						66.0	12.0	54.0
March - -						79.0	15.0	64.0
April - -						91.0	34.0	57.0
May - -						96.0	37.0	59.0
June - -						86.0	48.0	38.0
July - -	103.0	61.0	42.0	19	21	88.0	56.0	32.0
August - -	99.0	62.0	37.0	7	4	91.0	52.0	39.0
September -	90.0	47.0	43.0	18	23	90.0	33.0	57.0
October - -	82.0	23.0	59.0	3	31	60 0	31.0	49.0
November -	68.0	13.0	55.0	5,15,16	26	65.0	12.0	53.0
December -	52 0	3.0	49.0	2, 3,16	29	57.0	9.0	48.0

TABLE XXXV—Continued.

onth.	1840.					1841.				
	Maximum.	Minimum.	Range of temperature.	Day of maximum.	Day of minimum.	Maximum.	Minimum.	Range of temperature.	Day of maximum.	Day of minimum.
	°	°	°			°	°	°		
ry - -	53.0	—4.0	57.0	30	18	60.0	2.0	68.0	7	2
ary -	69.0	—4.5	73.5	29	5	59.0	1.5	57.5	22, 23	12
ı - -	73.0	20.0	53.0	4	11	80.0	17.0	63.0	28	15
- -	87.0	29.0	58.0	23	2, 9	74.0	32.0	42.0	9	12, 13
- -	93.0	35.0	58.0	17	13	83.0	34.0	49.0	22	4
- -	90.0	48.0	42.0	5	7	95.0	54.0	41.0	8	1, 2
- -	92.0	56.0	36.0	16	4	95.0	58.5	36.5	24	27
st - -	88.0	59.0	29.0	24	26	92.0	54.0	38.0	4	18
mber -	80.0	37.5	42.5	9	22	88.5	47.5	41.0	4	30
er - -	81.0	22.0	59.0	2	27	67.5	27.0	40.5	11	26
mber -	68.0	20.5	47.5	5	22	74.0	19.5	54.5	1	30
nber -	59.0	1.0	58.0	1	18	58.5	13.5	45.0	9	1

Month.	1842.				
	Maximum.	Minimum.	Range of temperature.	Day of maximum.	Day of minimum.
	°	°	°		
ıry - -	63.0	12.0	51.0	20	24
ıary - -	70.0	14 0	56.0	4	17
h - -	82.0	27.0	55.0	19	12
- - -	85.5	30.0	55.5	25	1
- - -	85.5	43.0	42.5	29	6
- - -	97.0	45.0	52.0	30	12

ıe greatest monthly range of the temperature occurs in February and March, and the least ly and August, and the greatest mean daily range (Table XXXIV) is in spring, and least nter; the mean of all the observations showing the greatest range in April and least in ıst.

TABLE XXXVI.

Monthly and annual temperatures, from maxima and minima.

Month.	1838.	1839.	1840.	1841.	1842.	Monthly means.
	°	°	°	°	°	°
January - -		30.32	23.45	32.52	38.46	31 19
February - -		36.00	40.21	31.81	39 34	36.84
March - -		44.48	46.60	42.58	50.91	46.14
April - -		59.10	56.41	49.51	56.88	55.47
May - -		66.21	63.74	59.64	62.24	62.96
June - -		67.61	70.50	75.32	72.63	71.51
July - -	83.66	72.67	74.37	75.27		76.47
August - -	80.88	68.45	75.06	72.72		74.28
September - -	69.98	63.86	61.45	68.27		65.89
October - -	52.16	57.89	54.90	49.41		53 59
November - -	40.25	38.13	41.44	43.84		40.91
December - -	30.31	33.77	29.26	36.37		32.43
Annual means -		53.21	53 12	53.11		53 9

TABLE XXXVII.

Mean monthly and annual temperatures.

Month.	Tab. XXI.	Tab. XXXII.	Tab. XXXVI.	Monthly means.
	°	°	°	°
January - - - - - -	34.47	31.23	31.19	32.30
February - - - - - -	35.42	36.70	36 84	36.32
March - - - - - -	46.11	45.29	46.14	45.85
April - - - - - -	52.31	54.65	55.47	54.14
May - - - - - -	60.45	62.63	62.96	62.01
June - - - - - -	73.27	71.48	71.51	72 09
July - - - - - -	75.40	75.10	76.47	75.66
August - - - - - -	72.02	72.66	74.28	72.99
September - - - - -	68.07	65.56	65.89	66 5
October - - - - - -	48.80	54.67	53.59	52.
November - - - - -	43.72	41.47	40.91	42.03
December - - - - -	35.70	33.61	32.43	33.91
Annual means - - - - -	53.81	53.75	53.97	53.85

The agreement of the results is striking, and shows that, whether the annual temperatur derived from observations made at the four or twelve chosen hours, or from the arithmet mean of the extremes, the difference amounts to but 0°.22. The mean temperature of W ington may therefore be considered as quite approximately determined; the numbers of the ond column in Table XXXVII being from 1½, of column third from 3½, and of column from 4 entire years of observation.

TABLE XXXVIII.

Monthly temperature of the dew point at each hour of observation.

Month.	3 A. M.					Mo. means.	9 A. M.					Mo. means.
	1838.	1839.	1840.	1841.	1842.		1838.	1839.	1840.	1841.	1842.	
	°	°	°	°	°	°	°	°	°	°	°	°
Jan.		*d*24.68		*c*27.78		26.20		*b*27.27		*a*29.66		28.46
Feb.		[3]e23.55		[4]22.83		23.41		[1]29.88		[3]27.24		28.56
Mar.		[5]33.65	n37.06	27.89	g40.41	34.75		[2]36.55	n45.00	35.49	g41.07	39.53
April		38.10	c44.55	a39.29	g43.88	41.45		43.33	45.70	40 96	b48.18	44.54
May		a51.30	a51.67	a44.98	e49.65	49.40		54.34	a56.47	b49.23	c52.61	53.16
June		a54.83	58.30	a61.96	b60.39	58.87		a59.76	66.35	66 60	62.27	63.74
July		62.07	65.90	c62.47		63.46	71.90	b66.14	71.52	a65.53		68.77
Aug.		58.61	69.53			64.07	63.97	65.19	72.87			67.34
Sept.		54.95	52.30			53.62	59.70	58.37	59.59			59.22
Oct.		b47.47	a46.33			46.90	44.03	54.01	52.71			50.25
Nov.	35.73		a32 86			34.29	32.63		a38.00			35.31
Dec.	23.18		22.00			22.59	*b*23.76		23.76			23.76

Month.	3 P. M.					Mo. means.	9 P. M.					Mo. means.
	1838.	1839.	1840.	1841.	1842.		1838.	1839.	1840.	1841.	1842.	
	°	°	°	°	°	°	°	°	°	°	°	°
Jan.		28.87		32.06		30.46		[1]24.27		[1]28.78		26.50
Feb.		[1]32.52		[1]28.63		30.57		[1]26.04		[3]24.46		25.25
Mar.		[2]37.31	h45.23	36.44	e45.07	41.01		[3]a35.22	h40.94	32.90	f41.32	37.59
April		42.57	49.03	43.98	c47.60	45.79		41.40	c50.04	a41.48	c50.79	45.93
May		53.63	56.26	52.41	51.71	53.50		56.56	56.77	b50.39	b52.09	53.95
June		60 30	66.73	b69.52	a61.42	64.49		62.00	65.70	67.58	a62.23	64.38
July	70.87	d63.22	72.42	b67.45		68.49		c67.54	a69.52	d65.44		67.50
Aug.	62 67	64.90	74.47			67.35		67.26	a72.70			69.98
Sept.	57.37	58.70	61.53			59.20		61.80	57.87			59.83
Oct.	45.19	55.16	53.68			51.34		a53.60	50.21			51.90
Nov.	34.50		a40.48			37.49	31.90		35.70			33 80
Dec.	25.35		26.28			25.81	[1]22.56		23.29			22.92

a One omission.
b Two omissions.
c Three omissions.
d Four omissions.
e Five omissions.
f Six omissions.
g Seven omissions.
h Thirteen omissions.
n Fifteen omissions.

a Dew point below zero one day.
b Dew point below zero two days.
c Dew point below zero three days.
d Dew point below zero four days.
e Dew point below zero five days.
f Dew point below zero six days.
g Dew point below zero seven days.

[1] Dew point too low to be observed one day.
[2] Dew point too low to be observed two days.
[3] Dew point too low to be observed three days.
[4] Dew point too low to be observed four days.
[5] Dew point too low to be observed five days.

TABLE XXXIX.

Mean monthly and annual temperature of the dew point.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Daily means.
January - -	26°.20	28°.46	30°.46	26°.50	27°.90
February - -	23.41	28.56	30.57	25.25	26.95
March - -	34.75	39.53	41.01	37.59	38.22
April - -	41.45	44.54	45.79	45.93	44.43
May - -	49.40	53.16	53.50	53.95	52.50
June - -	58.87	63.74	64.49	64.38	62.87
July - -	63.48	68.77	68.49	67.50	67.06
August - -	64.07	67.34	67.35	69.98	67.18
September -	53.62	59.22	59.20	59.83	57.99
October - -	46.90	50.25	51.34	51.90	50.18
November -	34.29	35.31	37.49	33.80	35.22
December -	22.59	23.76	25.81	22.92	23.77
Annual means	43.25	46.88	47.96	46.63	46.18

TABLE XL.

Difference of the dew point and temperature of the air at each hour of observation.

Month.	3 A. M.					Mo. means.	9 A. M.					Mo. means.
	1838.	1839.	1840.	1841.	1842.		1838.	1839.	1840.	1841.	1842.	
January -		5°.44		3°.82		4°.63		5°.48		3°.37		4°.47
February -		7.70		7.42		7.56		6.22		5.34		5.78
March -		6.15	1.06	7.46	6.12	5.45		7.86	2.06	6.73	7.92	6.14
April -		9.70	3.61	5.19	4.78	5.82		13.70	11.05	7.82	7.57	10.03
May -		7.40	5.78	6.94	4.50	6.15		13.13	7.97	10.56	9.82	10.37
June -		6.03	5.40	5.57	4.47	5.37		9.12	6.03	9.98	10.72	8.96
July -		4.98	4.46	5.79		5.04	11.04	9.41	4.82	11.20		9.12
August -		3.00	2.61			2.80	16.61	6.82	2.80			8.74
September		3.22	3.53			3.37	11.43	7.65	4.48			7.85
October -		2.90	3.93			3.41	8.97	6.43	3.98			5.39
November	5.53		5.50			5.52	6.97		4.85			5.91
December	6.22		4.31			5.26	7.00		5.92			6.46

Month.	3 P. M.					Mo. means.	9 P. M.					Mo. means.
	1838.	1839.	1840.	1841.	1842.		1838.	1839.	1840.	1841.	1842.	
January -		8°.10		5°.25		6°.67		7°.27		3°.70		[illegible]
February -		11.67		11.44		11.55		9.67		9.08		[illegible]
March -		15.72	7.88	12.99	12.80	12.35		8.48	2.65	8.53	8.39	[illegible]
April -		25.10	16.90	12.40	17.63	18.01		12.40	6.65	6.22	3.85	[illegible]
May -		19.97	14.16	14.20	18.74	16.77		6.55	6.49	6.98	7.23	[illegible]
June -		14.33	10.04	14.58	17.94	14.22		6.20	5.12	5.06	7.42	[illegible]
July -	17.26	17.57	7.95	17.43		15.05		7.61	4.82	7.24		[illegible]
August -	22.75	10.07	4.78			12.53		5.05	2.63			[illegible]
September	18.53	11.83	8.69			13.02		4.97	3.75			[illegible]
October -	14.62	10.06	8.98			11.22		3.90	3.93			[illegible]
November	11.90		9.81			10.85	6.30		6.27			[illegible]
December	9.94		9.64			9.79	7.83		6.00			[illegible]

TABLE XLI.

Monthly and annual means of the difference between the dew point and temperature of the air.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Daily means.
January - -	4°.63	4°.42	6°.67	5°.48	5°.30
February - -	7.56	5.78	11.55	9.37	8.57
March - -	5.45	6.14	12.35	7.01	7.74
April - - -	5.82	10.03	18 01	7.28	10.28
May - - -	6.15	10.37	16.77	6.81	10.00
June - - -	5.37	8.96	14.22	5.95	8.62
July - - -	5.04	9.12	15.05	6.56	8.94
August - -	2.80	8.74	12.53	3.84	6.98
September - -	3.37	7.85	13.02	4 36	7.15
October - -	3.41	5.20	11.22	3.91	5.96
November - -	5.52	5.91	10.85	6.28	7.14
December - -	5.26	6.46	9.79	6.92	7.11
Annual means -	5.03	7.42	12.67	6.15	7.82

TABLE XLII.

Mean temperature of evaporation (wet bulb thermometer) at each hour of observation.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Daily means.
1841.					
	°	°	°	°	°
March - -		*i*43.15	*i*47.05		
April - - -	*m*43.64	*b*46.82	53.57	*g*45.80	47.46
May - - -	*f*49.32	*a*56.47	61.71	*a*54.60	55.52
June - - -	*a*63.65	*a*72.07	*c*75.92	67.58	69.78
July - - -	65.78	73.15	75.22	*a*69.57	70.93
August - -	*d*63.80	*b*72.23	*b*75.14	*b*68.07	69.81
September - -	*b*59.07	*b*66.18	*a*70.84	*b*63.27	64.84
October - -	*a*40.67	45.68	52.68	*b*45.09	46.03
November - -	*e*38.46	*e*41.40	*a*45.29	*d*41 35	41.62
December - -	*n*39.90	*k*38.47	*g*41.61	*k*39.09	39.84
1842.					
January - -	*l*36.69	*k*36.79	*e*41.89	*k*37.09	38.11
February - -	33.43	34.94	41.86	35.93	36.54
March - -	43.05	46 05	51.40	45.59	46.52
April - - -	46 47	51 22	57.27	50.67	51.41
May - - -	50.82	*a*58.07	61.90	54.76	56.39
June - - -	61.60	68.34	71.68	*a*64.93	66.64
Annual means -	48.31	52.71	57.23	51.28	52.39

a One omission.	*d* Four omissions.	*g* Seven omissions.	*k* Fourteen omissions.
b Two omissions.	*e* Five omissions.	*h* Eight omissions.	*l* Fifteen omissions.
c Three omissions.	*f* Six omissions	*i* Eleven omissions.	*m* Sixteen omissions.

n Twenty-one omissions.

The annual means in the last line are obtained for the year commencing July, 1841, and terminating June, 1842. From the great number of omissions in December and January, the temperatures for those months are evidently too high, the omissions having been when the dry

TABLE XLIII.

Difference between the temperature of the air and that of evaporation, at
observation.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.
	°	°	°	°
1841.				
March - -		1.55	1.68	
April - -	1.57	2.14	2.78	1.58
May - -	2.78	4.03	5.69	3.13
June - -	3 21	4.32	8.37	2 81
July - -	2.07	3.42	8.89	2.82
August - -	1.15	1.61	5.29	1.36
September -	2.39	2.82	5.63	1.98
October - -	3.32	2.58	4.61	3.53
November -	3.18	2.56	4.77	3.54
December -	3.10	2 19	2.03	3.06
1842.				
January - -	1.70	1.98	3.08	2.44
February - -	1.85	2.03	4.40	2.91
March - -	2.72	2.94	6.47	4.12
April - -	3.17	4.53	7.96	3.97
May - -	3.33	4.36	8.41	4.56
June - -	2.96	4.65	7.68	4.89
Annual means -	2.58	2 97	5.77	3.27

The annual means are for the year commencing July, 1841.

The *greatest* difference between the temperature of the air and that of evapora by the wet bulb thermometer, occurs in all the months at 3 P. M., and during December of 1841 appears to form an exception, so far as the hour is concerned; but observations (56) amounting to more than one half of the entire number, requires not be considered. The difference is *least* at 3 P. M., and in winter; the excep hours being June and September, 1841, when it was least at 9 P. M ; October and when it was least at 9 A. M.; and to the total amount, August, 1841. If this omitted, the march of difference appears regular, increasing from January to July, ing from July to January.

Collecting into one result the mean of all the observations at that hour in each year, the following table is formed.

TABLE XLIV.

Mean difference between the temperature of the air and that of evaporation, in the
of the year.

Hour.	Spring.	Summer.	Autumn.	Winter.
	°	°	°	°
3 A. M. - -	2.71	2.35	2.96	2.22
9 A. M. - -	3.26	3.50	2.65	2 07
3 P. M. - -	5.50	7.56	5.00	3.14
9 P. M. - -	3.47	2.97	3.02	2.80
Daily means -	3.73	4.09	3.41	2.56

TABLE XLV.

Monthly means of the force of the aqueous vapor at each hour of observation.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.	Daily means.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*
1841.					
March - -		.301	.349		
April - -	.290	.320	.407	.315	.333
May - -	.351	.438	.515	.423	.432
June - -	.564	.733	.761	.682	.685
July - -	.619	.777	.768	.695	.715
August - -	.589	.769	.804	.672	.708
September -	.489	.619	.696	.572	.594
October - -	.240	.300	.368	.284	.298
November -	.222	.258	.279	.247	.251
December -	.231	.230	.261	.231	238
1842.					
January - -	.220	.218	.262	.211	.228
February - -	.212	.216	.252	.217	.224
March - -	.274	.304	.341	.294	.304
April - -	.311	.358	.405	.348	.355
May - -	.357	.457	.495	.400	.427
June - -	.535	.658	.662	.575	.607
Annual means -	.405	.491	.529	.452	.469

The annual means have been obtained for the year commencing July, 1841.

As the numbers of tables XLII and XLIII indicated, the tension of the aqueous vapor is greatest at 3 P. M., the only exception being the month of July, 1841, in which the mean daily force was greater than in any other month. It is least at 3 A. M., and in February. December and January are apparent exceptions to this law, but we may probably look to the number of omitted observations at the hour of minimum in these months for the discrepancies.

Arranging *all* the observations at each hour into four groups, we have the next table.

TABLE XLVI.

Quarterly means of the force of the aqueous vapor at each hour of observation.

Hour.	Spring.	Summer.	Autumn.	Winter.	Annual means.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*
3 A. M. - -	.317	.577	.317	.223	.358
9 A. M. - -	.363	.734	.392	.235	.428
3 P. M. - -	.419	.749	.448	.258	.468
9 P. M. - -	.356	.656	.368	.220	.400
Daily means -	.364	.679	.381	.234	.414

The force of the vapor is greatest in the summer, and at 3 P. M. in all the quarters. It is least in the winter and at 3 A. M., in spring, summer, and autumn—and in winter at 9 P. M. Summer is above—spring, autumn, and winter, below the annual means, the tension in autumn approaching it nearest.

TABLE XLVII.

Mean monthly temperature at 9 A. M. and 3 P. M., as shown by the
bulb was exposed to the direct rays of the sun.

Month.	1838.		1839.		1840.		1841.	
	9 A.M.	3 P.M.	9 A.M.	3 P.M.	9 A.M.	3 P.M.	9 A.M.	3 P.M.
	°	°						
January -			58°.07	58°.33	35°.20	42°.89	34°.50	48°.50
February -			58.71	68 99	57.17	67.60	43.97	59.72
March - -			65.00	75.21	63.20	74.38	59.52	69.28
April - -			77.04	85.78	73.42	82.57	65.31	75.74
May - -			87 90	90.87	86.90	91.43	77.21	83.81
June - -			85.91	88.29	92.00	97.22	93.13	101.23
July - -			93.75	99.06	96.62	98.89	93.88	98.61
August -			89.19	98.25	94.69	98.09	91.39	97.13
September -			80.79	81.91	83.44	81.86	87.45	91.22
October -			70.88	73.55	62.25	76.75	65.39	75.55
November -	65.43	68.88	64 90	63.20	56.41	68.58	58.95	65.91
December -	49.67	55.74	60.25	58.17	39.23	52.26	47.33	61.31
Annual means -			74.37	78.47	70.04	77.71	68.17	77.53

Taking the differences between the readings of the *dry* and *sun* thermometers, their sum by the number of observations of the sun thermometer, the numbers of table are obtained.

TABLE XLVIII.

Mean monthly difference between the temperature of the air at 9 A. M. and
that shown by the thermometer whose bulb was exposed to the full rays of

Month.	1838.		1839.		1840.		1841.	
	9 A.M.	3 P.M.	9 A.M.	3 P.M.	9 A.M.	3 P.M.	9 A.M.	3 P.M.
	°	°						
January -			29°.27	22°.33	18°.60	19°.33	7°.21	12°.75
February -			27.57	25.56	16.66	23.00	13.44	18.03
March - -			20.82	20.79	21.50	19.62	17.41	17.58
April - -			19.00	16.70	16.65	15.60	16.54	15 34
May - -			21.10	16.50	20.67	17.95	15.52	16.58
June - -			17.15	13.41	18.47	19.14	15.72	15.32
July - -			17.65	17.78	18.48	20.90	17.04	13.80
August -			15.12	18.69	19.40	19.31	17.94	16.07
September -			16.16	10.53	19.06	13.24	18.08	13.58
October -			14.45	9.84	9.83	14.85	18.91	17.77
November -	31.59	23.11	22 60	16.20	15.82	16.84	15.00	13.10
December -	23.89	21.79	27.37	20.23	9.81	15.60	13.96	18.42
Annual means -			20.69	17.39	17.04	17.95	15.56	15.70

TABLE XLIX.

*a daily difference in each month between the temperature of the air and that of the ther-
ometer whose bulb was exposed to the full rays of the sun, together with its monthly
d annual values.*

Month.	1838.	1839.	1840.	1841.	1842.	Mon. means.
	°	°	°	°	°	°
ary -		25.80	18.96	9.98	14.24	17.24
uary -		26.56	19.83	15.73	16.43	19 64
ch - -		20.80	20.56	17.49	15.97	18.70
l - -		17.85	16.12	15.94	16.90	16.70
- -		18.80	19.31	16.05	16.68	17.71
- -		15.28	18.80	15.52	17.38	16.75
- -		17.71	19.69	15.42		17.61
ust - -		16.90	19.35	17.00		17.75
ember -		13.34	16.15	15.88		15.11
ber - -		12.14	12.34	18.34		14.27
ember -	27.32	19.40	16.33	14.05		19.27
mber -	22.84	23.85	12.45	16.19		18.83
nnual means		19.04	17.49	15.62		17.47

preparing the following table, whenever the wind has been recorded in the journal as
N. E. more than once at each observation hour during the month, the first observation has
called north, and the second northeast, &c. If there are two of E. N. E., one is consid-
northeast, the other east, and so of other points. N. by E. is put down north; N E. by
northeast, &c., the observation being placed in that column with which the direction of
wind most nearly coincides.

TABLE L.

wing the number of days in each month during which the wind blew from each direction.

1838.

3 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
ember - -		3			1	6	2	9	8
ember - -	1	4	3	1	2	1	1	7	11
Sums - -	1	7	3	1	3	7	3	16	19

TABLE I.—Continued.

1838.

9 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.
July - - -		3		1	6	10	4	[illegible]
August - -		8	3	2	3	6		[illegible]
September - -	8	10	3			6		[illegible]
October - -	1	3		1		8	1	15
November - -		2		2	1	7	2	14
December - -	3	1		1	2	5		[illegible]
Sums - -	12	27	6	7	12	42	6	[illegible]

3 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.
July - - -		3		1	6	9	4	[illegible]
August - -		8	3	2	3	6		[illegible]
September - -	8	12	3			6		
October - -	1	3		1		8	1	15
November - -		2		5		6	8	13
December - -	1	2	2	1	5	4	2	11
Sums - -	10	27	8	10	14	39	10	[illegible]

9 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.
November - -		2	2	1	2	4	3	[illegible]
December - -	2	3	3		3	2	1	5
Sums - -	2	5	5	1	5	6	4	17

TABLE I.—Continued.

1839.

3 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
January - -	3	4	2	1	3	1		6	11
February* - -		4	5		3	2		5	4
March - -	2	3	3		8	1	7	5	2
April - - -	2	5	1	4	5	4	1	6	2
May† - - -	4	6	1	1	2	8	4	1	3
June - - -	1	5	3	2	1	3	1	10	4
July - - -	4	6	3	1	1	9	5	1	1
August - -	7	6		1	3	3	4	4	3
September - -	6	2	3		3	1	6	5	4
October - -	4	1	6	2	1	3	6	5	3
November - -	6	3	4		1	1	3	9	3
December - -	7	3	2		1	3	5	8	1
Sums - -	46	48	33	12	32	39	42	65	41

9 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
January - -	1	2	1		6	1		7	13
February - -	2	3	2	2	2	3		3	11
March - -	1	3		2	5	4	4	8	4
April - - -	4	7	2		6	4	3	4	
May - - -	3	5	2	2	2	3	5	5	4
June - - -	2	3	2	2	3	6	4	8	
July - - -	1			3	4	10	9	4	
August - -	5	5	2	2	4	2	4	5	2
September - -	7	1		1	3	3	4	8	3
October - -	7	4	5	1	1	1	3	6	3
November - -	4	4	1		2		1	15	3
December - -	7	3	1		1		8	8	3
Sums - -	44	40	18	15	39	37	45	81	46

* Five observations omitted.

† One observation omitted.

TABLE L—Continued.

1879.

3 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.
January - -	4	3	2	1	6	1	3
February - -		4	3	3	5	2	2
March - -	2	1	1		7	7	7
April - - -	3	3	4		7	4	4
May - - -	2	3	1	1	6	6	10
June - - -	1	2	1	1	5	6	8
July - - -	1			3	5	9	8
August - -	5	3	1	3	4	5	5
September - -	2	2	1	2	2	3	7
October - -	5	3		3	4	3	7
November - -	4	4			2	3	2
December - -	3	4	3	1	3	2	8
Sums - -	32	32	17	18	56	51	71

9 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.
January - -	4	6	1	1	1		1
February - -	4	3	6	2	5	1	2
March* - -	2	2	2	3	6	2	5
April - - -	5	2	2	2	7	3	3
May - - -	4	3	3	2	6	3	2
June - - -	1	3	2	3	4		6
July - - -	3	1	2	1	5	4	9
August - -	7	2	1	2	6	2	3
September† - -	5	2	2		3	2	3
October - -	6	2	6	1	1		2
November - -	6	2	7			2	5
December - -	4	2	2		2	1	8
Sums - -	51	30	36	17	46	20	49

* One observation omitted. † Two observations omitted.

TABLE L—Continued.

1840.

3 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
January - -	7	2	4	2	5		1	4	6
February - -	4	1	1	1	8			5	9
March - -	2	4	3	1	5	1	4	6	5
April - - -		4	1	3	4	6	1	3	7
May - - -		2	2	6		6	8	3	4
June* - - -	1	1	1	10	1		10	4	
July - - -	1	1	1		1	7	8	3	8
August - -				6	5	10	2	1	6
September - -		4	2			6	2	8	8
October - -	3	4	4	4	2	4	3	4	3
November - -	4	7	2	1	2	3	1	9	1
December - -	2	8	2	2	2	3	1	11	
Sums - -	24	38	23	36	35	46	41	61	57

9 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
January - -	9	2	1	2	5	2	1	3	6
February - -	4	1	2	1	7	1		6	7
March - -	1	3	2	5	8	1	4	5	2
April - - -	2	2	1	2	7	4	3	4	5
May - - -		6		5	2	6	6	3	3
June - - -	1	5		3	1	5	10	5	
July - - -	2	3		3		3	9	7	3
August - -			1	4	6	7	8	2	2
September - -	1	5	1	1		8	2	11	1
October - -	1	5	4	5	2	7	2	5	
November - -	3	10			2	5	1	9	
December - -	1	9	3	3	3	2	2	6	2
Sums - -	25	51	15	34	43	51	48	66	31

* Two observations omitted.

TABLE L—Continued.

1840.

3 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.
January - -	6		1	1	4	1	2	[illegible]
February - -	2	1		1	6	4	4	[illegible]
March - -	2	1	2	2	6	6	3	[illegible]
April - - -		1	2	3	3	8	4	[illegible]
May - - -	1	3		7	1	8	5	[illegible]
June - - -		2	1	3		6	13	[illegible]
July - - -	1	3		2	1	7	8	[illegible]
August - -		1	2	3	7	7	4	[illegible]
September - -	1	4		2	2	11	5	[illegible]
October - -	2	2	3	1	5	10	2	[illegible]
November - -	4	3	2	2	3	4	1	[illegible]
December - -	2	4	1	2	6	4	4	[illegible]
Sums - -	21	25	14	29	44	76	55	[illegible]

9 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.
January - -	5	3	4	1	5		1	[illegible]
February - -	2	1	3		10	1	2	[illegible]
March - -	1	2	3	5	4		6	[illegible]
April - - -	2		1	6	6	5	1	[illegible]
May - - -		4		7	2	6	5	
June - - -	1	4		2	3	2	6	[illegible]
July* - - -	1	1	1	3	3	4	5	[illegible]
August - -		2	1	6	6	6	1	[illegible]
September - -	1	1		3	2	7		[illegible]
October - -		8	2	3	5	6	2	[illegible]
November - -	4	4	3		5	4	2	[illegible]
December - -	3	8	2		2	5	3	[illegible]
Sums - -	20	38	20	36	53	46	34	[illegible]

* One observation omitted.

METEOROLOGICAL OBSERVATIONS.

TABLE L—Continued.

1841.

3 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
ry - -	2	10		1		8		10	
ary - -	1	2	2	2	2	6	1	9	3
ı - -	2	7	3		3	8	3	7	1
– - -	5	5	2	1	2	6	3	1	4
– - -	1	3	1	2	2	3	3	6	10
– - -		6	3		1	5	2	2	11
– - -	1	5	2	2		2	3	5	10
st - -	2	2	5		1	3		2	12
mber - -		7	4	1	2	2	2	4	8
ber - -	4	4		2	1	5	2	5	8
mber* - -	2	4	1	1		4	3	8	5
mber* - -	1	4		1	1	2		10	11
Sums - -	21	59	23	13	15	49	22	69	83

9 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
ary - -	3	11		2	3	3	1	6	2
uary - -	3	5	1	1	3	6	2	4	3
ch - -	4	9	1	1	1	8	1	5	1
l - -	2	7			3	3	4	9	3
- - -	3	5	2	2		2	3	12	2
- - -	1	6	2		2	9	1	6	3
- - -	2	4	2	2	4	9	2	4	1
ust - -	5	4	3	5	3	4		2	5
ember* - -	3	8	2	3	2	4		4	1
ber - -	3	3		2		5	3	8	6
ember - -		4		1		4	3	8	10
ember - -	4	3	1				3	10	10
Sums - -	33	69	14	19	20	57	23	78	47

* One observation omitted.

TABLE I.—Continued.

1841.

3 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.
January - -	6	3		2	3	4	4
February - -	2	8	2		1	5	6
March - -	3	9	2	1		5	4
April* - -	4	6	2		6	2	4
May - - -	2	9	2	1	1	4	5
June - - -		4	3	3	1	10	3
July - - -				3	2	16	4
August - -	4	5	5	1	3	5	1
September - -	2	7	2	2	1	6	1
October - -	2	3	1	3	1	4	4
November - -	1	4		1	1	7	5
December - -	1	2	1	3	3	1	1
Sums - -	27	48	20	20	23	69	41

9 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.
January - -		5	2	4		4	3
February - -	4	2	3		1	6	1
March - -		10	1	2	2	3	2
April - - -	1	3	2	2	5	4	2
May - - -		3	1	2		3	3
June - - -		4	1	1	2	1	4
July - - -		2	2		1	3	4
August - -	4	2	1	3	2	2	2
September - -	1	5	3	4		1	2
October - -	1	5	1		1	7	3
November - -		4		1	1	5	4
December* - -	1	4		2	3	4	
Sums - -	12	49	17	21	18	43	31

* One observation omitted.

TABLE L—Continued.

1842.

3 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
January - -	1	1	1		4	9	2	3	10
February - -		3			2	7	3	3	10
March - -	1	2	1	3	2	8	3	4	7
April - - -	1	7	2	2	1	2	4	2	9
May - - -	3	3			2	3	2	4	13
June - - -	1	4	2	2	3	2		2	11
Sums - -	7	20	6	7	14	31	14	18	60

9 A. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
January - -		2	1	1	3	11	2	6	5
February - -		3				7	11	4	3
March - -	1	4	1	1		12	1	7	4
April - - -	2	9	1	2	1	8		7	
May* - - -	2	5			1	10	2	6	4
June - - -	2	4	2	2	1	7		5	5
Sums - -	7	27	5	6	6	55	16	35	21

3 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
January - -			1		3	14	5	5	3
February - -		1			1	12	7	5	2
March - -	2	2	1	3	2	10	3	8	
April - - -	1	5	3	2	2	7	4	5	
May - - -	4	2		1	3	9		7	3
June - - -		3	2	1		8	4	4	3
Sums - -	7	13	7	7	11	60	23	34	11

9 P. M.

Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.
January - -	2		1		3	11	3	2	9
February - -		2			3	9	5	4	5
March - -	2	4	2	2	1	7	4	6	3
April - - -	2	3	1	2	7	2	4	3	5
May - - -	1	3		2		4	1	4	14
June - - -	2	3		1	2	3		2	11
Sums - -	9	15	4	7	16	36	17	21	47

* One observation omitted.

In preparing TABLE LI, as observations were made at 3 A. M. and 9 P. M. only
months of 1838 and six months of 1842, in order to complete four years, the sum of
bers opposite 3 A. M. and 9 P. M., in columns 1838 and 1842, has been increased
of their amount; to this is added the results for 1839, 1840, and 1841, and the
vided by four. The resulting numbers are placed opposite those hours, respectively,
means. To render the annual means comparable in each year, the numbers
and 9 P. M. of 1838 have been multiplied by six; those opposite 9 A. M. and 3 P. M.
and the sum of the two quantities thus obtained is divided by four and placed in
The sum of the numbers in column 1842, for each direction, is divided by two

TABLE LI.

Showing, at each hour in the several years, the number of the winds prevailing
direction, with the mean annual numbers resulting from the same.

Wind.		1838.	1839.	1840.	1841.	1842.
North	3 A. M.	1.0	46.0	24.0	21.0	7.0
	9 A. M.	12.0	44.0	25.0	33.0	7.0
	3 P. M.	10.0	32.0	21.0	27.0	7.0
	9 P. M.	2.0	51.0	20.0	12.0	9.0
Means		15.5	43.2	22.5	23.3	15.0
Northeast	3 A. M.	7.0	48.0	38.0	59.0	20.0
	9 A. M.	27.0	40 0	51.0	69.0	27.0
	3 P. M.	27.0	32.0	25.0	48.0	13.0
	9 P. M.	5.0	30.0	38.0	49.0	15.0
Means		45.0	37.5	38.0	56.2	37.5
East	3 A. M.	3.0	33.0	23.0	23.0	6.0
	9 A. M.	6.0	18.0	15.0	14.0	5.0
	3 P. M.	8.0	17.0	14.0	20.0	7.0
	9 P. M.	5.0	36.0	20.0	17.0	4.0
Means		19.0	26.0	18.0	18.5	11.0
Southeast	3 A. M.	1.0	12.0	36.0	13.0	7.0
	9 A. M.	7.0	15.0	34.0	19.0	6.0
	3 P. M.	10.0	18.0	29.0	20.0	7.0
	9 P. M.	1.0	17.0	36.0	21.0	7.0
Means		11.5	15.5	33.7	18.2	13.5
South	3 A. M.	3.0	32.0	35.0	15.0	14.0
	9 A. M.	12.0	39.0	43.0	20.0	6.0
	3 P. M.	14.0	56.0	44.0	23.0	11.0
	9 P. M.	5.0	46.0	53.0	18.0	16.0
Means		25.0	43.2	43.7	19.0	23.5

TABLE LI—Continued.

Wind.		1838.	1839.	1840.	1841.	1842.	Means.
Southwest	3 A. M.	7.0	39.0	46.0	49.0	31.0	47.7
	9 A. M.	42.0	37.0	51.0	57.0	55.0	60.5
	3 P. M.	39.0	51.0	76.0	69.0	60.0	73.7
	9 P. M.	6.0	20.0	46.0	43.0	36.0	43.0
Means - -		60.0	36.7	54.7	54.2	91.0	56.2
West -	3 A. M.	3.0	42.0	41.0	22.0	14.0	32.6
	9 A. M.	6.0	45.0	48.0	23.0	16.0	34.5
	3 P. M.	10.0	71.0	55.0	41.0	23.0	50.0
	9 P. M.	4.0	49.0	34.0	31.0	17.0	36.4
Means - -		18.5	51.7	49.5	29.2	35.0	38.4
Northwest	3 A. M.	16.0	65.0	61.0	69.0	18.0	61.5
	9 A. M.	58.0	81.0	66.0	78.0	35.0	79.5
	3 P. M.	57.0	77.0	73.0	88.0	34.0	82.2
	9 P. M.	17.0	56.0	57.0	62.0	21.0	58.0
Means - -		107.0	69.7	64.2	74.2	54.0	70.3
Calm -	3 A. M.	19.0	41.0	57.0	83.0	60.0	74.9
	9 A. M.	10.0	46.0	31.0	47.0	21.0	38.9
	3 P. M.	2.0	11.0	28.0	24.0	11.0	19.0
	9 P. M.	16.0	57.0	57.0	105.0	47.0	78.4
Means - -		58.5	38.7	43.2	64.7	69.0	52.8

We perceive in the above table, that in the average of four years—

At 3 A. M., calms prevail : the proportional part of the year being 74.9 days.
9 A. M., northwest winds : the proportional part of the year being 79. 5 days.
3 P. M., northwest winds : the proportional part of the year being 82.2 days.
9 P. M., calms : the proportional part of the year being 78.4.

TABLE LII.

Showing at each observation hour of the several months the mean number of days on which the wind prevailed from each direction.

Month and hour.		North.	N. E.	East.	S. E.	South.	S. W.	West.	N. W.
Jan.	3 A. M.	3.2	4.2	1.8	1.0	3.0	4.5	0.8	5.8
	9 A. M.	3.2	4.2	1.0	1.5	4.2	4.2	1.0	5.5
	3 P. M.	4.0	1.5	1.0	1·2	4.0	5.0	3.5	7.5
	9 P. M.	2.8	3.5	2.0	1.5	2.3	3.8	2.0	5.5
Feb.	3 A. M.	1.1	2.5	2.0	1.0	3.8	3.8	1.0	5.5
	9 A. M.	2.2	3.0	1.2	1.0	3.0	4.2	1.0	4.2
	3 P. M.	1.0	2.2	1.2	1.0	3.2	5.8	3.5	5.8
	9 P. M.	2.2	2.0	3.5	0.5	4.8	4.3	2.0	5.2
March	3 A. M.	1.8	4.0	2.2	1.0	4.5	3.2	4.2	5.5
	9 A. M.	1.8	4.8	1.0	2.2	3.5	6.2	2.5	6.2
	3 P. M.	2.1	3.2	1.5	1.5	3.8	7.0	4.2	6.0
	9 P. M.	1.1	4.5	2.0	3.0	3.2	3.0	4.5	4.9
April	3 A. M.	2.0	5.2	1.5	2.5	3.0	4.5	2.[illegible]	3.0
	9 A. M.	2.5	6.2	1.0	1.0	3.8	4.8	2.5	6.0
	3 P. M.	2.0	3.8	2.8	1.3	4.5	5.3	4.0	5.0
	9 P. M.	2.5	2.0	1.5	3.0	6.2	3.2	2.5	3.3
May	3 A. M.	2.0	4.5	1.0	2.3	1.5	5.0	4.2	3.5
	9 A. M.	2.0	5.2	1.0	2.2	1.0	5.3	4.0	6.5
	3 P. M.	2.1	2.5	0.8	2.5	2.8	6.8	5.0	6.9
	9 P. M.	1.1	3.2	1.0	3.2	2.0	4.0	2.8	3.0
June	3 A. M.	0.8	4.0	2.1	3.5	1.5	2.5	3 2	4.5
	9 A. M.	1.5	4.5	1.5	1.9	1.7	6.8	3.8	6.0
	3 P. M.	0.2	2.8	1.8	2.0	1.5	7.5	7 0	4.8
	9 P. M.	1.0	4.5	0.8	1.8	2.8	1.5	4.0	4.3
July	3 A. M.	2.0	4.0	1.5	1.0	0.7	6.0	4.0	3 0
	9 A. M.	1.2	2.5	0.5	2 2	3.5	8.0	4.8	5.5
	3 P. M.	0.5	1.5	0.0	2.3	3.5	10.2	6.0	5.5
	9 P. M.	1.0	1.0	1.2	1.3	3.0	2.3	4.8	3.7
Aug.	3 A. M.	2.2	2.7	1.2	2.3	3.0	5.3	2.0	2.3
	9 A. M.	2.5	4.2	2.2	3.2	4.0	4.8	3.0	4.5
	3 P. M.	2 2	4.2	2.8	2.3	4.2	5.5	3.2	6.0
	9 P. M.	2.8	2.0	0.8	3.7	4.7	3.3	4.0	1.7
Sept.	3 A. M.	2.0	4.2	3.0	0.3	1.7	3.0	3.3	5.7
	9 A. M.	4.7	6.0	1.5	1.2	1.2	5.2	1.5	6.2
	3 P. M.	3.2	6.2	1.5	1.5	1.2	6.7	3.0	5.3
	9 P. M.	1.8	2.0	2.0	2.3	2.0	3.4	1.7	5.7
Oct.	3 A. M.	3.7	3.0	3.3	2.7	1.2	4.0	3.7	4.7
	9 A. M.	3.0	3.8	2.2	2.2	0.8	5.2	2.2	8.5
	3 P. M.	2.5	2.8	1.0	2.0	2.5	6.2	3.6	9.8
	9 P. M.	1.8	5.0	3.0	1.7	2.3	4.3	2.3	4 0
Nov.	3 A. M.	3.0	4.2	1.8	0.5	1.0	3.5	2.2	8.7
	9 A. M.	1.8	5:0	0.2	0.8	1.3	4.0	1.8	11.5
	3 P. M.	2.2	3.2	0.5	2.0	1.5	5.0	2.8	11.0
	9 P. M.	2.5	3.0	3.0	0.5	2.0	3.7	3.5	8.2
Dec.	3 A. M.	2.8	4.8	1.8	1.0	1.5	2.2	1.8	9.0
	9 A. M.	3.8	4.0	1.2	1.0	1.5	1.8	2.8	8.8
	3 P. M.	1.8	3.0	1.8	1.8	4.2	2.8	3.5	8.8
	9 P. M.	2.5	4.3	1.8	0.5	2.5	3.0	3.0	6.8

TABLE LIII.

Showing the prevailing wind at each observation hour of the several months.

Month.	3 A. M.	9 A. M.	3 P. M.	9 P. M.
ary	Calm	Calm	Northwest	Calm.
ruary	Calm	Calm	S. W. and N. W.	Northwest.
ch	Northwest	S. W. and N. W.	Southwest	Northwest.
il	Calm	Northeast.	Southwest	South.
	Calm	Northwest	S. W. and N. W.	Calm.
e	Calm	Southwest	Southwest	Calm.
	Calm	Southwest	Southwest	Calm.
gust	Calm	Southwest	Northwest	Calm.
tember	Calm	Northwest	Southwest	Calm.
ober	N. W. and calm	Northwest	Northwest	Calm.
ember	Northwest	Northwest	Northwest	Northwest.
ember	Northwest	Northwest	Northwest	Northwest.

TABLE LIV.

Aggregate fall of rain in each month and year, with the monthly and annual means.

Month.	1838.	1839.	1840.	1841.	1842.	Mo. means.
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*Inches.*
uary		4.740		6.900	1.734	4.458
ruary		2.680	2.597	1.790	3.889	2.739
rch		0.940	1.900	5.660	1.747	2.562
ril		2.660	3.920	4.717	4.844	4.035
y		3.670	2.060	2.732	6.960	3.856
ne		3.960	2.655	2.089	3.000	2.926
y	3.080	3.952	5.160	3.497		3.922
gust	0.920	6.030	3.100	4.701		3.688
tember	8.290	1.860	2.134	1.806		3.522
tober	3 960	1.580	4.700	3.975		3.554
vember	3.410	4.990	1.700	2.241		3.085
cember	1.700	1.270	3.500	4.987		2.864
Annual amount		38.332		45.095		41.211

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